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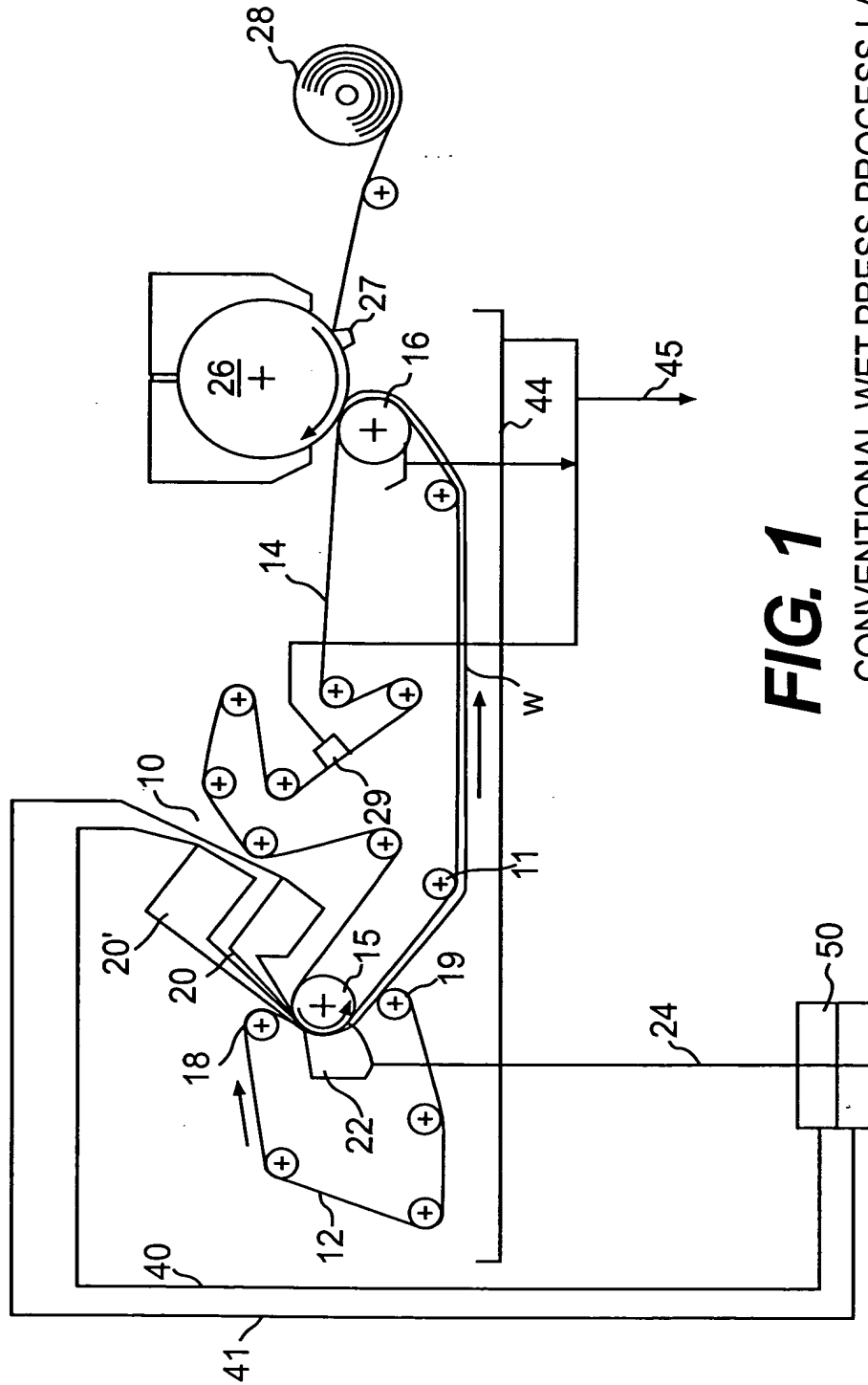
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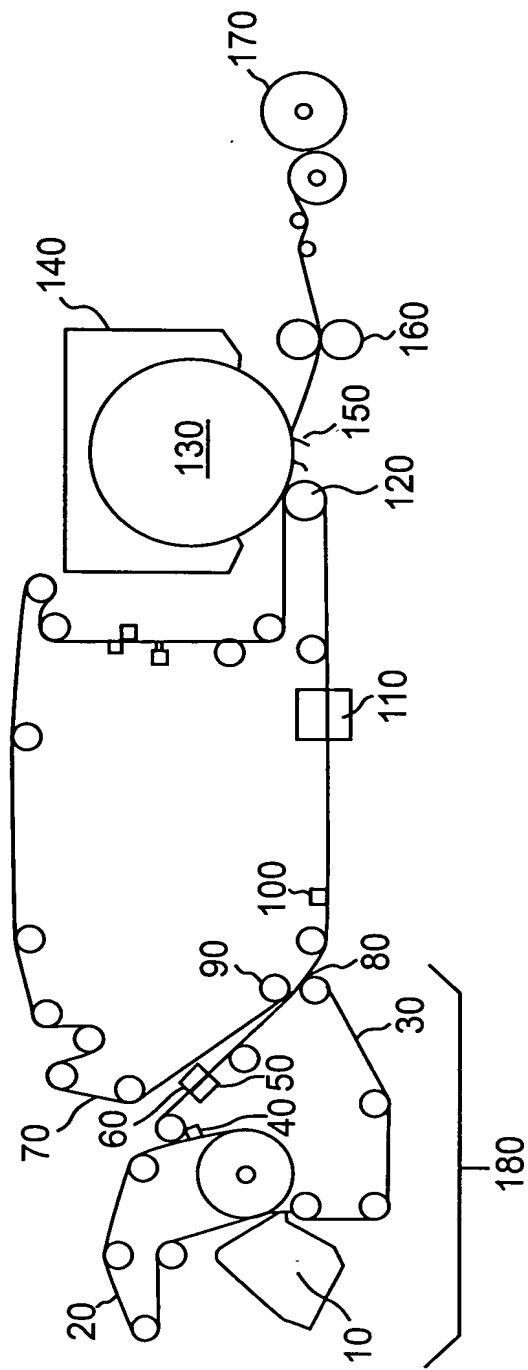
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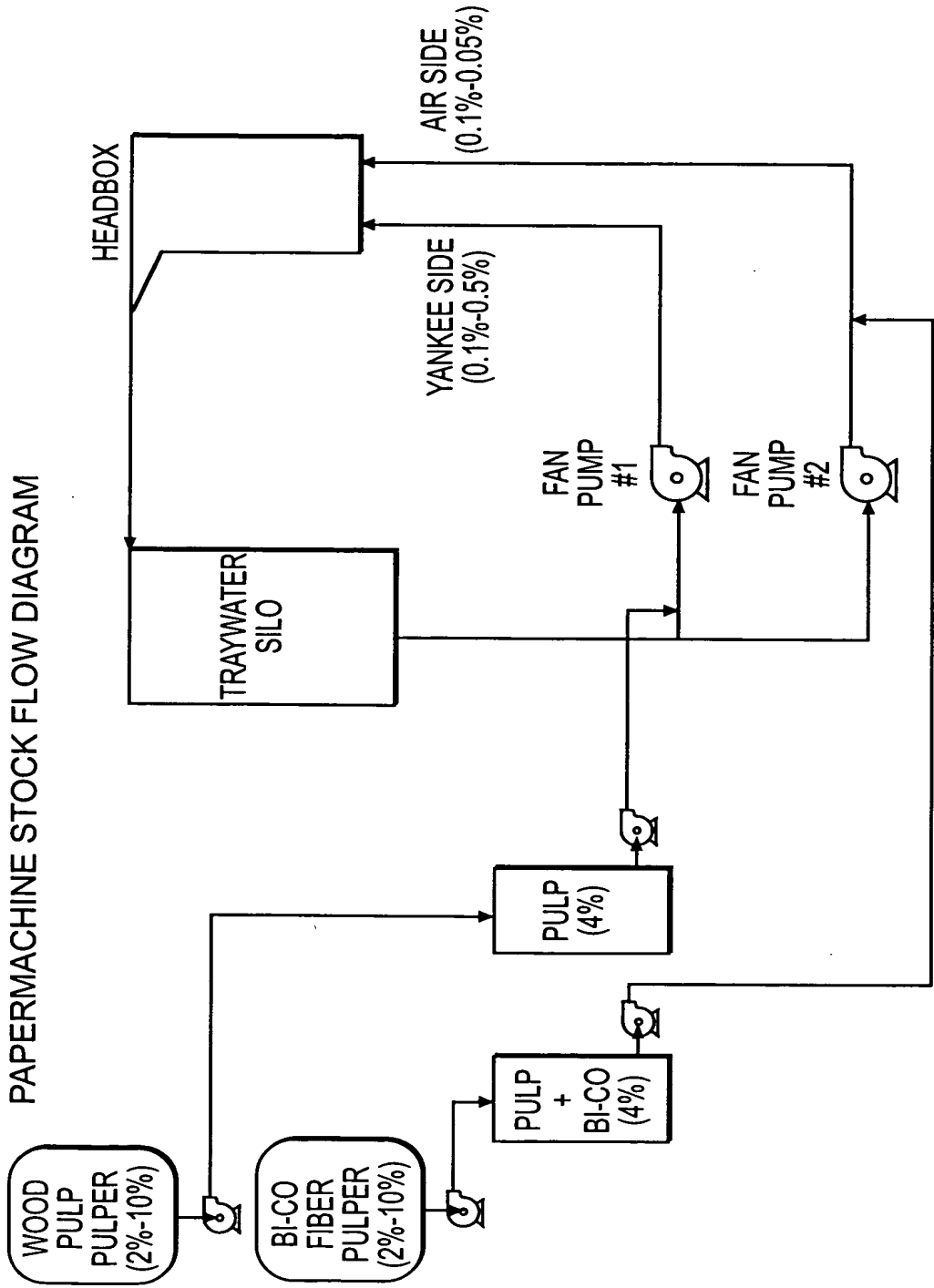


**FIG. 1**

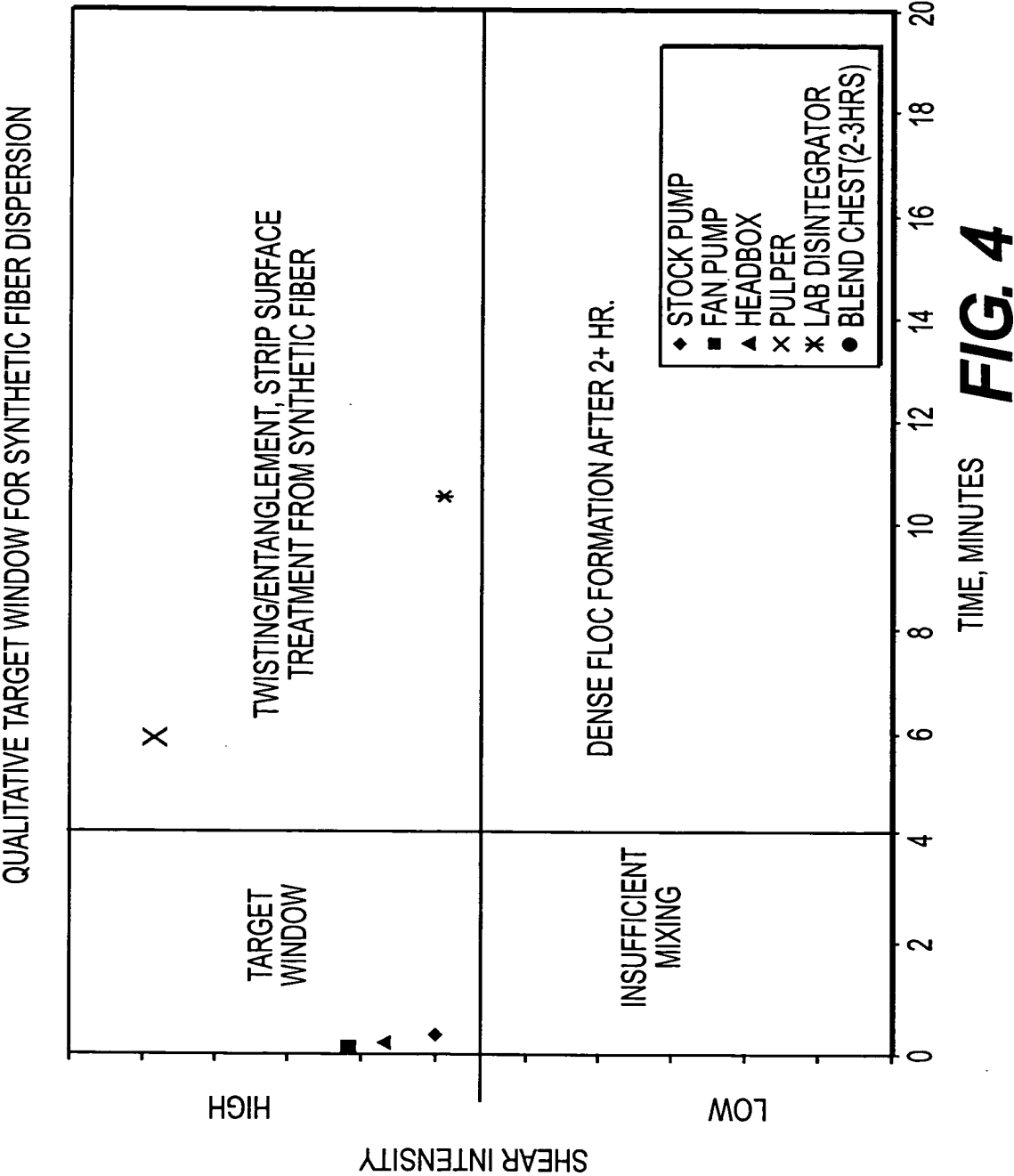
- CONVENTIONAL WET PRESS PROCESS LAYOUT



**FIG. 2** --CONVENTIONAL THROUGH-AIR-DRYING PROCESS LAYOUT

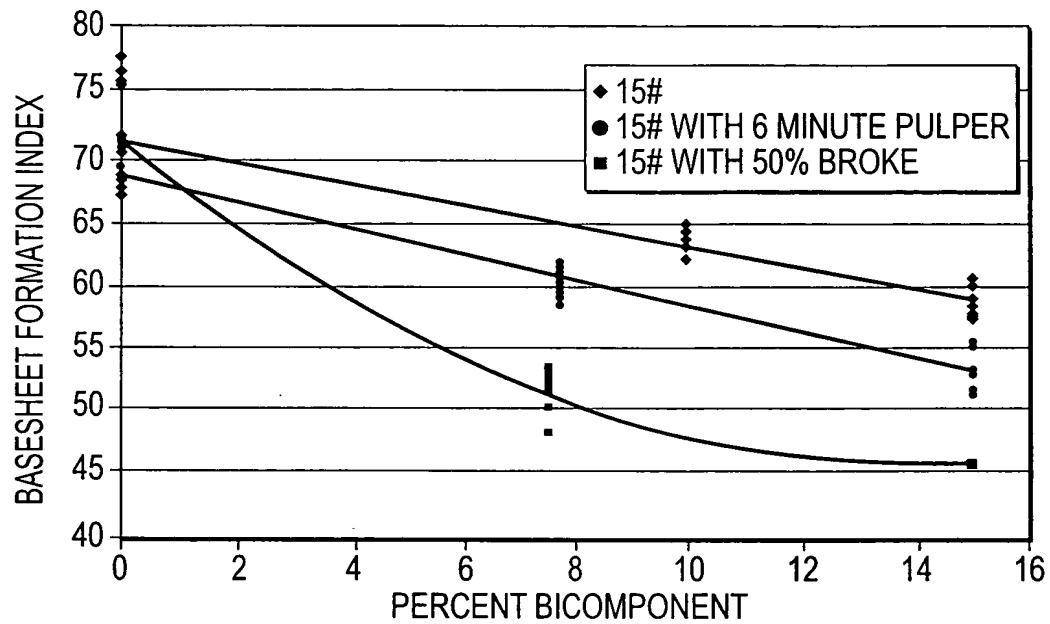


**FIG. 3**



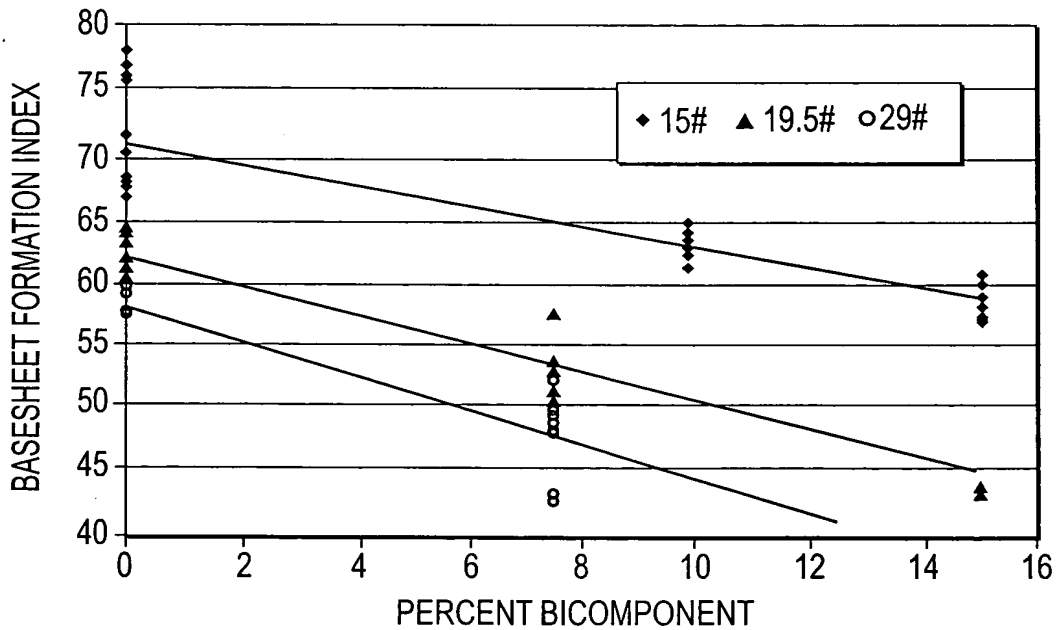
# Replacement Sheet

## EFFECT OF BICOMPONENT FIBER PROCESSING ON FORMATION



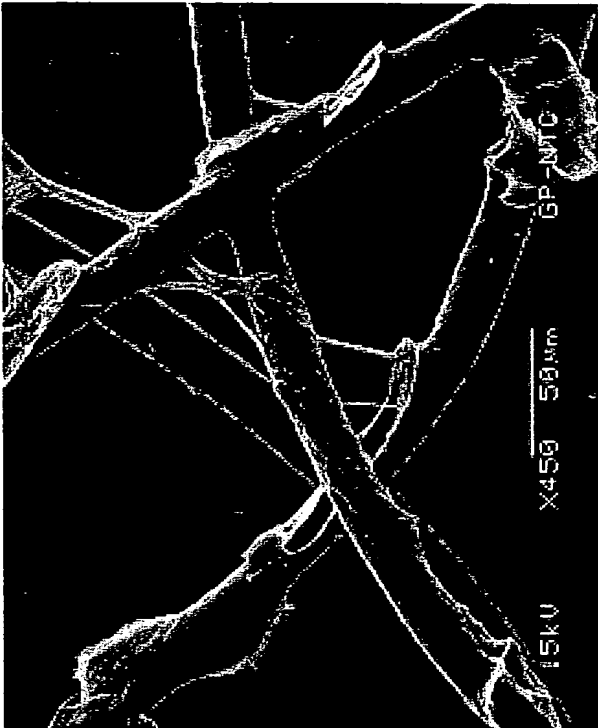
### FIG. 5

## EFFECT OF BASIS WEIGHT AND BICOMPONENT FIBER ON FORMATION



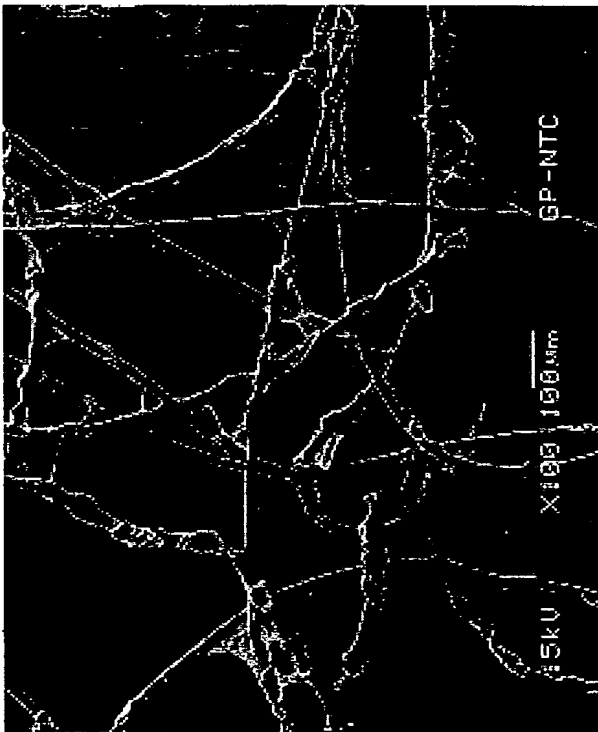
### FIG. 6

THERMAL BONDED BICOMPONENT SKELETON  
FROM 15# STRATIFIED SHEET WITH 15% BICOMPONENT



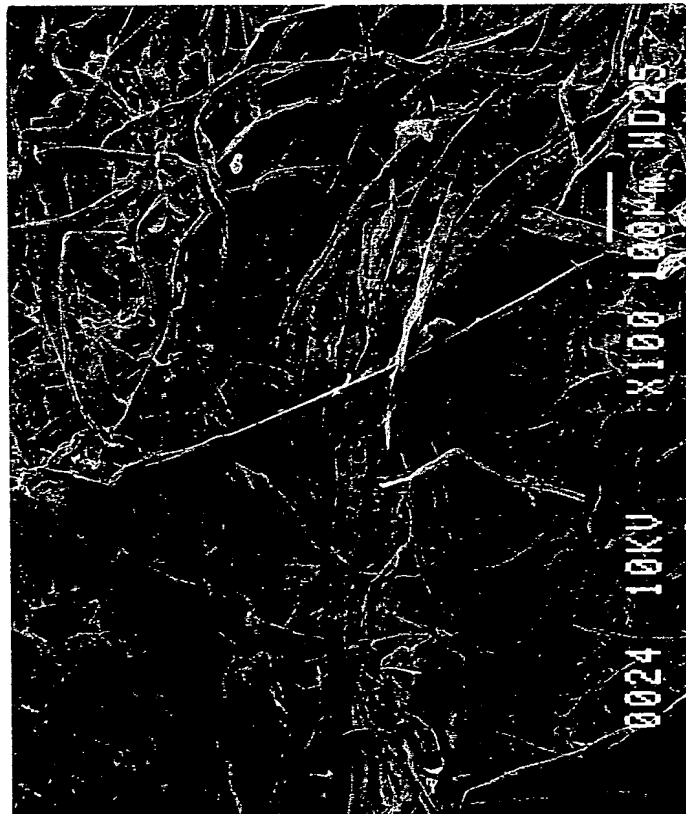
**FIG. 7B**

THERMAL BONDED BICOMPONENT SKELETON  
FROM 15# STRATIFIED SHEET WITH 15% BICOMPONENT



**FIG. 7A**

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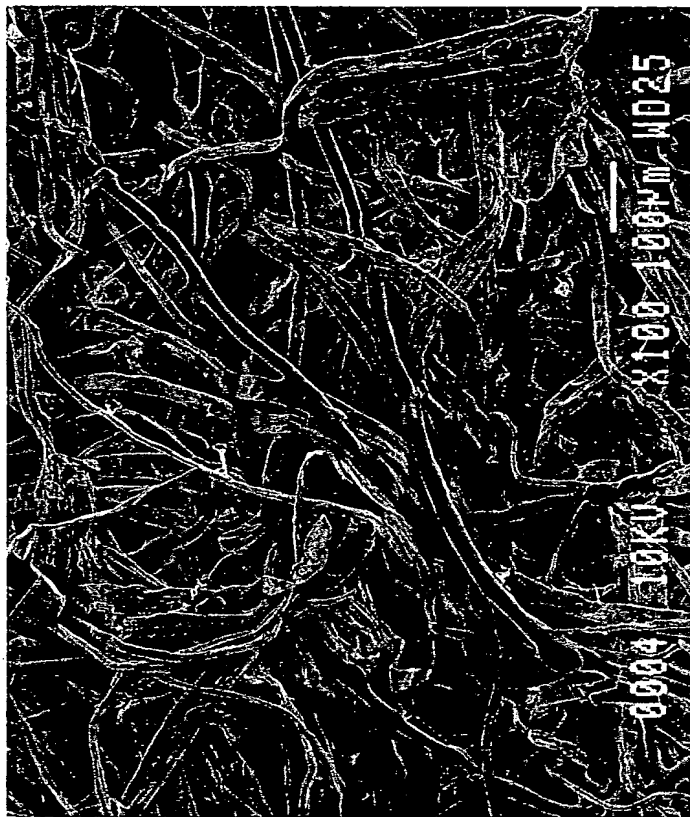
CELL 7

BI-CO

**FIG. 8**



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CELL 7

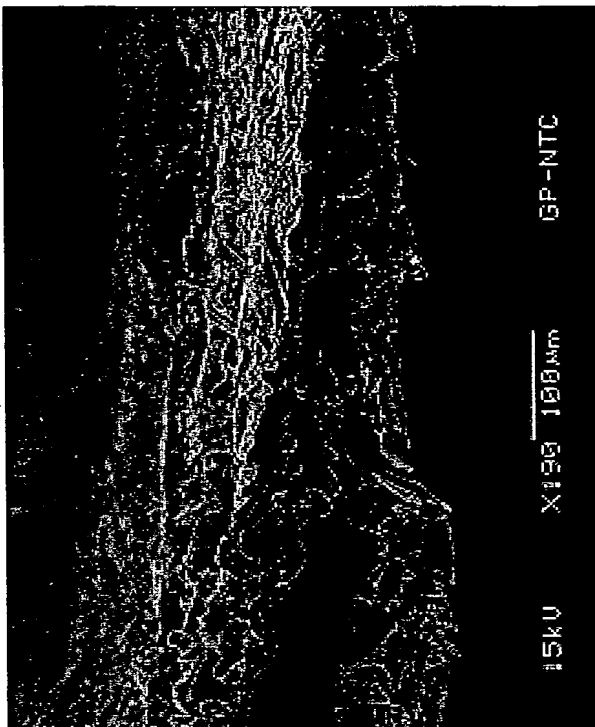
**FIG. 9**



CELL 7

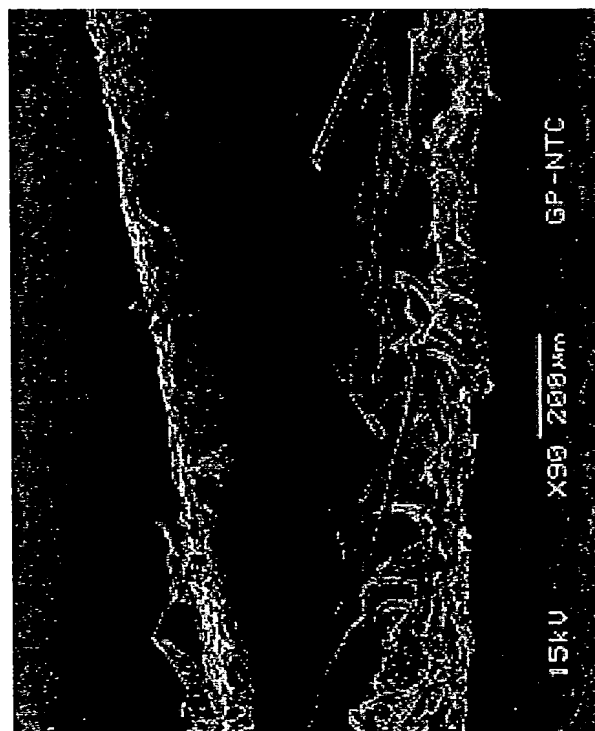
**FIG. 10**

TWO-PLY TOWEL MADE FROM 15# STRATIFIED  
SHEET WITH 15% BICOMPONENT FIBER.



**FIG. 11B**

TWO-PLY TOWEL MADE FROM 15# STRATIFIED  
SHEET WITH 15% BICOMPONENT FIBER.



**FIG. 11A**

RETAIL TOWEL PRODUCT PERFORMANCE (STRATIFIED/TAD OR IR CURED)  
SAT CAPACITY AS A FUNCTION OF WET STRENGTH (NORMALIZED)

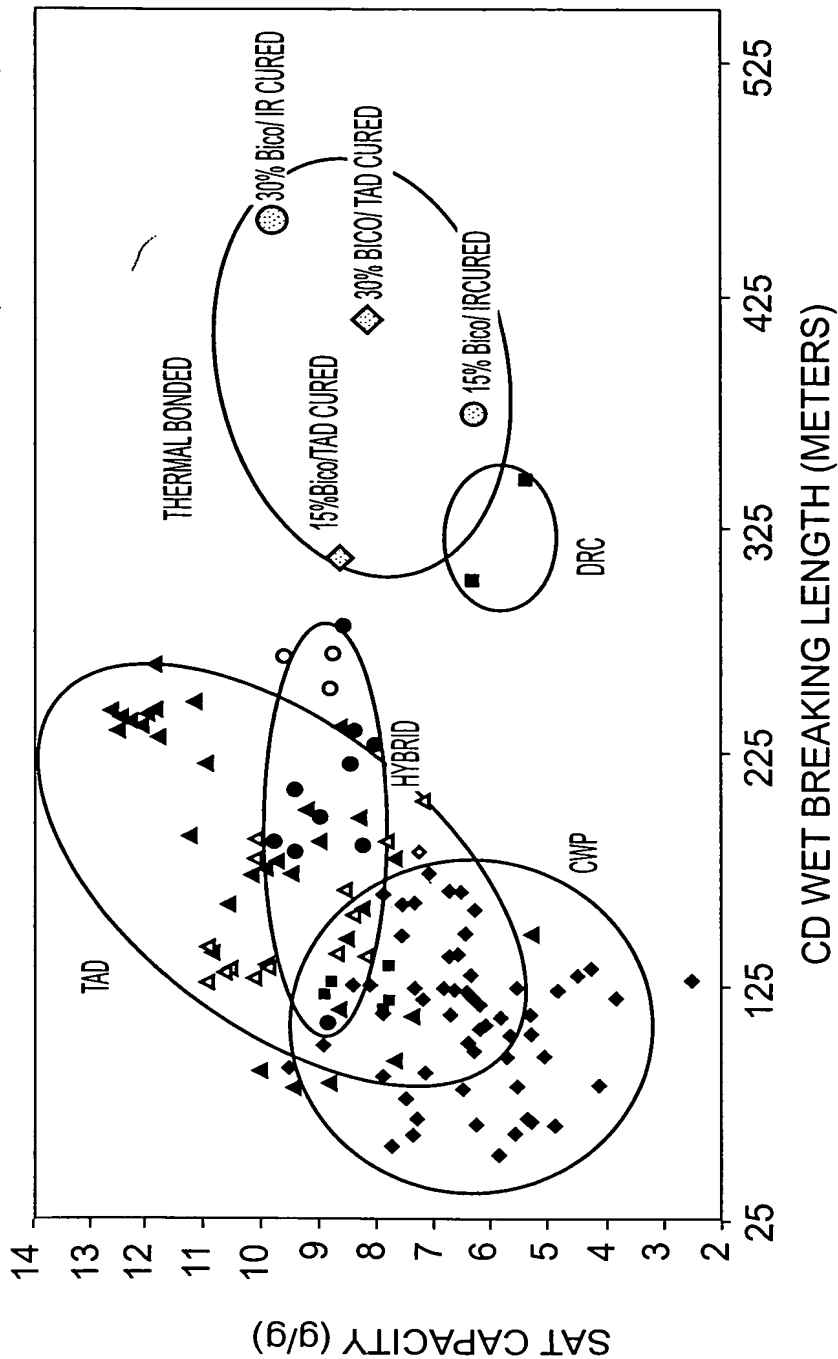


FIG. 12

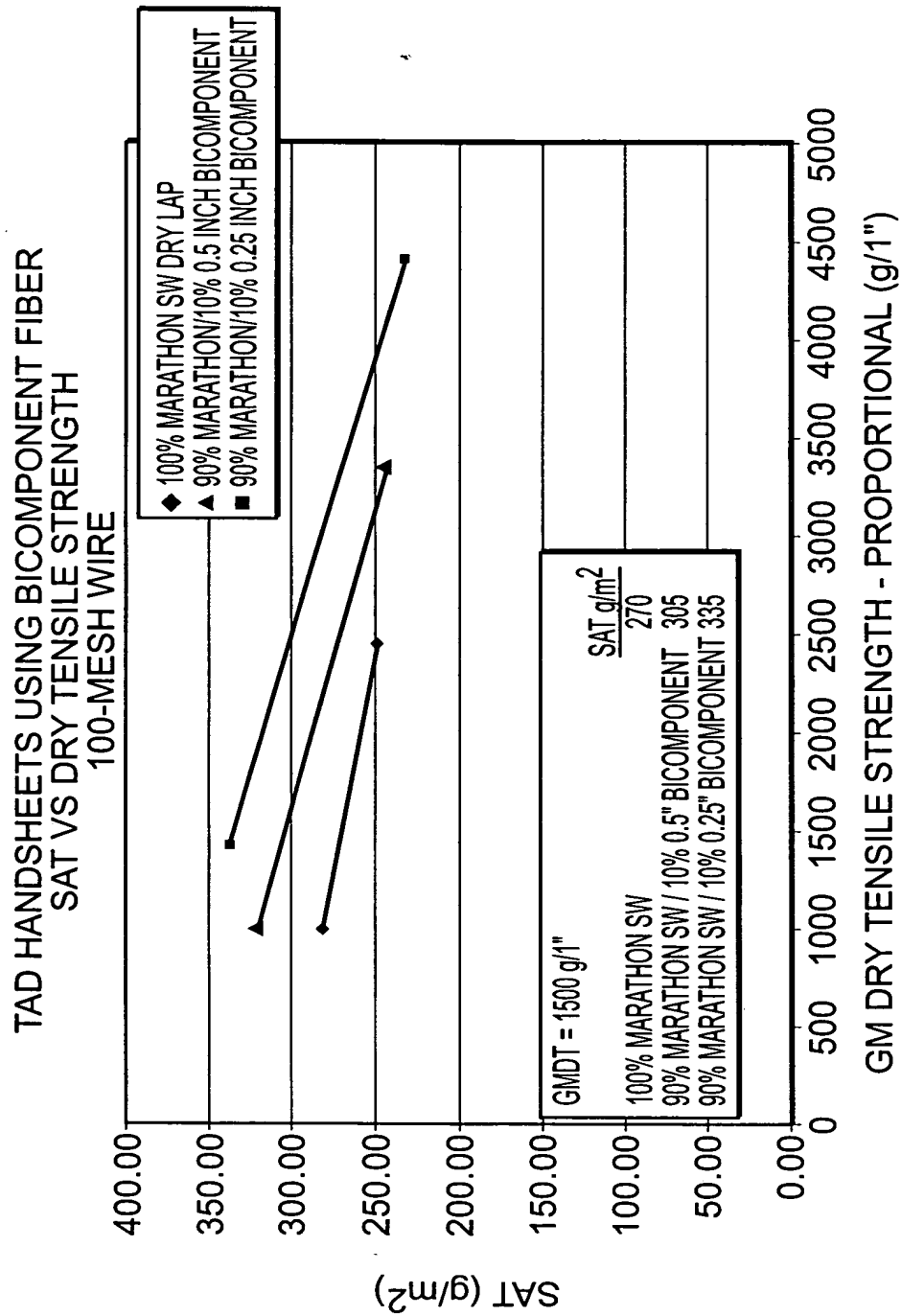


FIG. 13

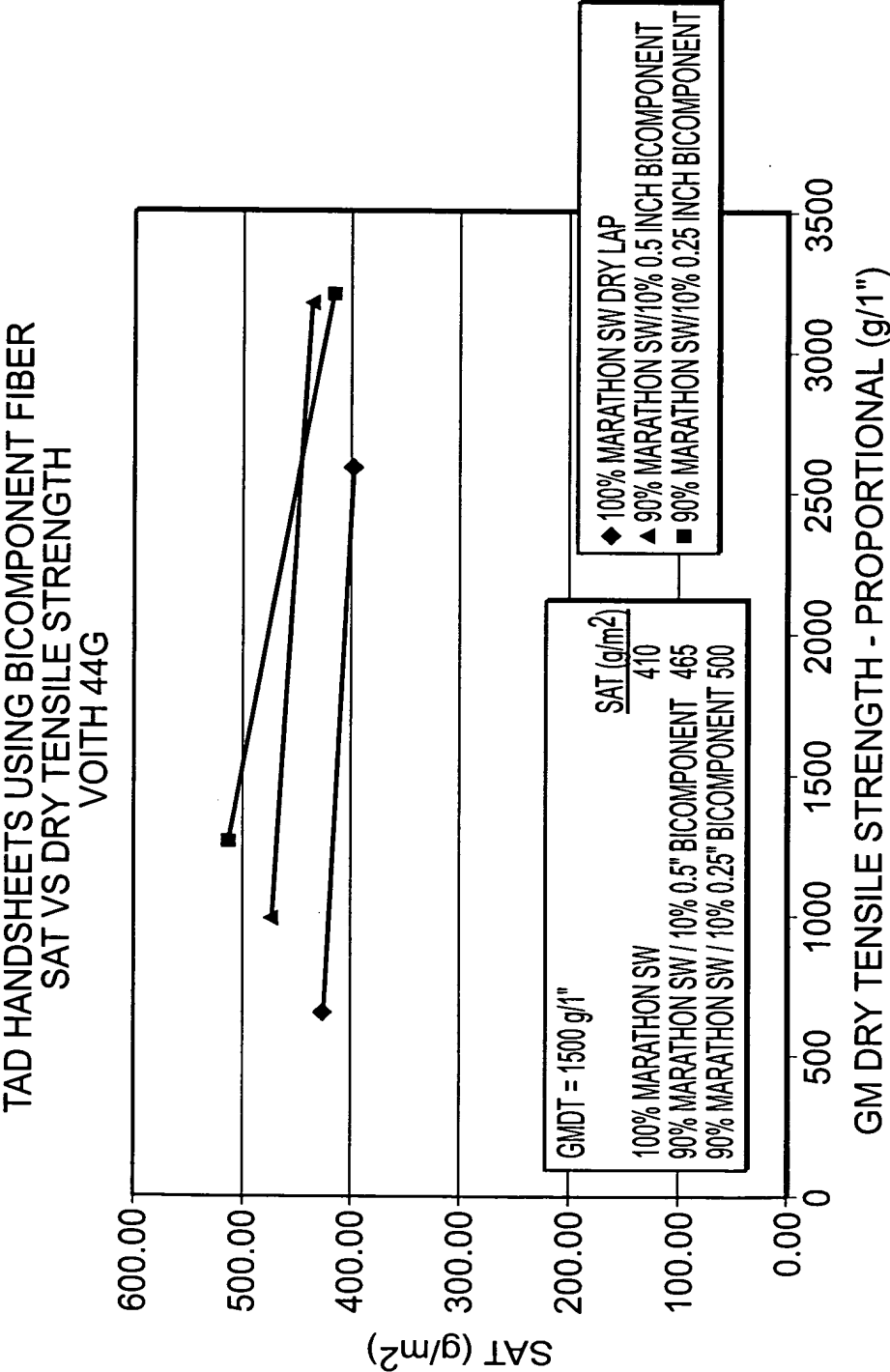
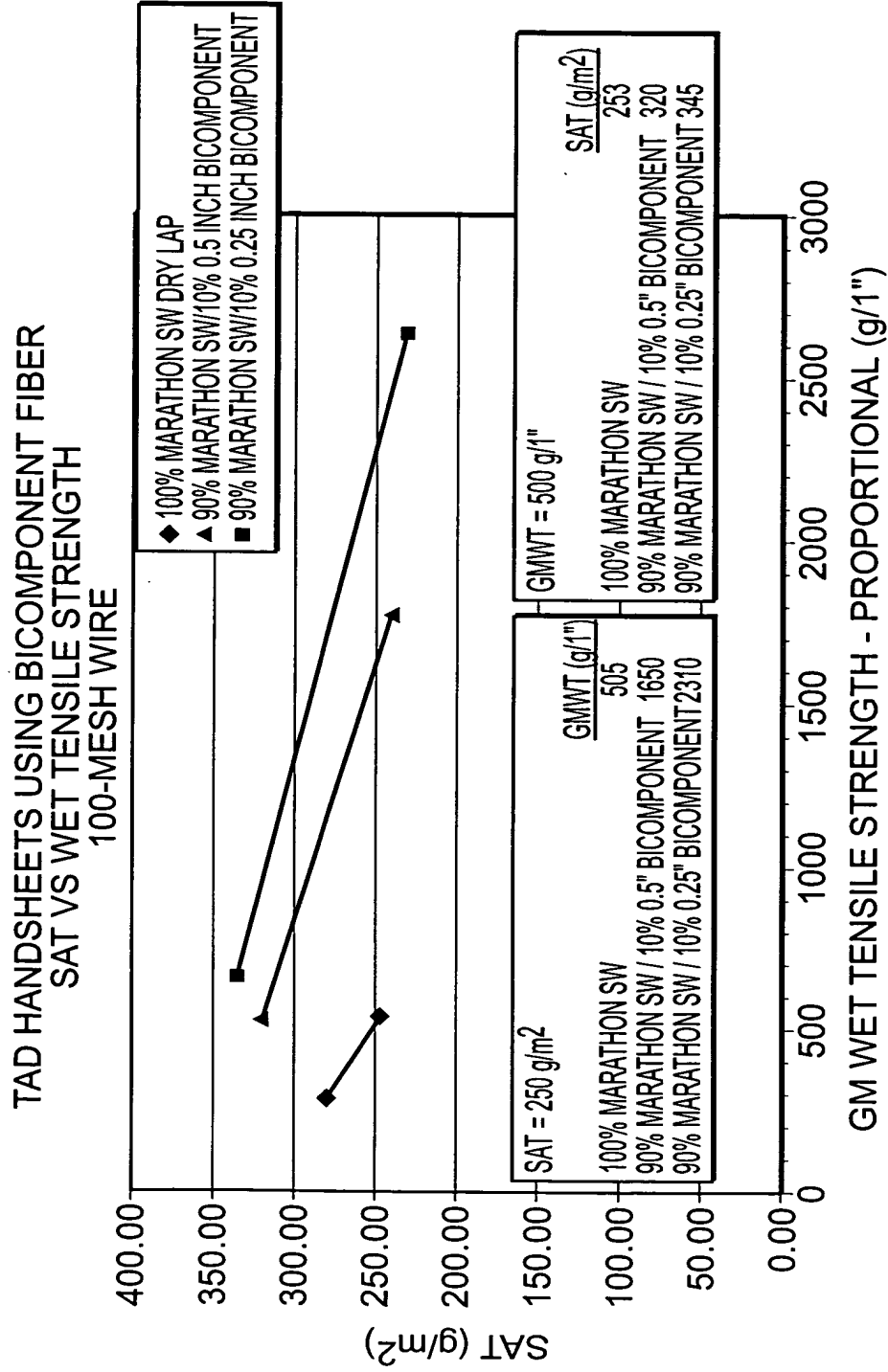
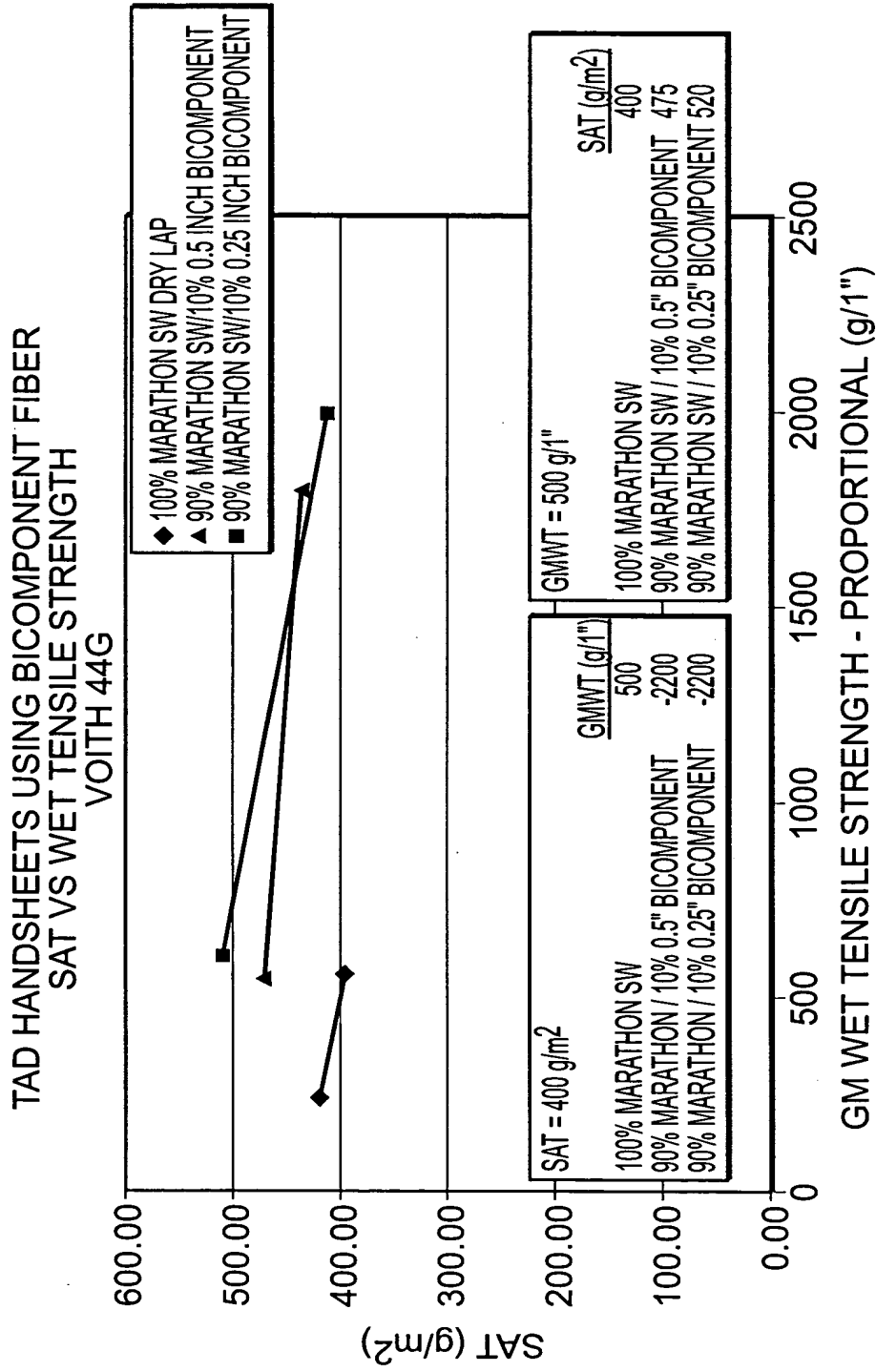


FIG. 14

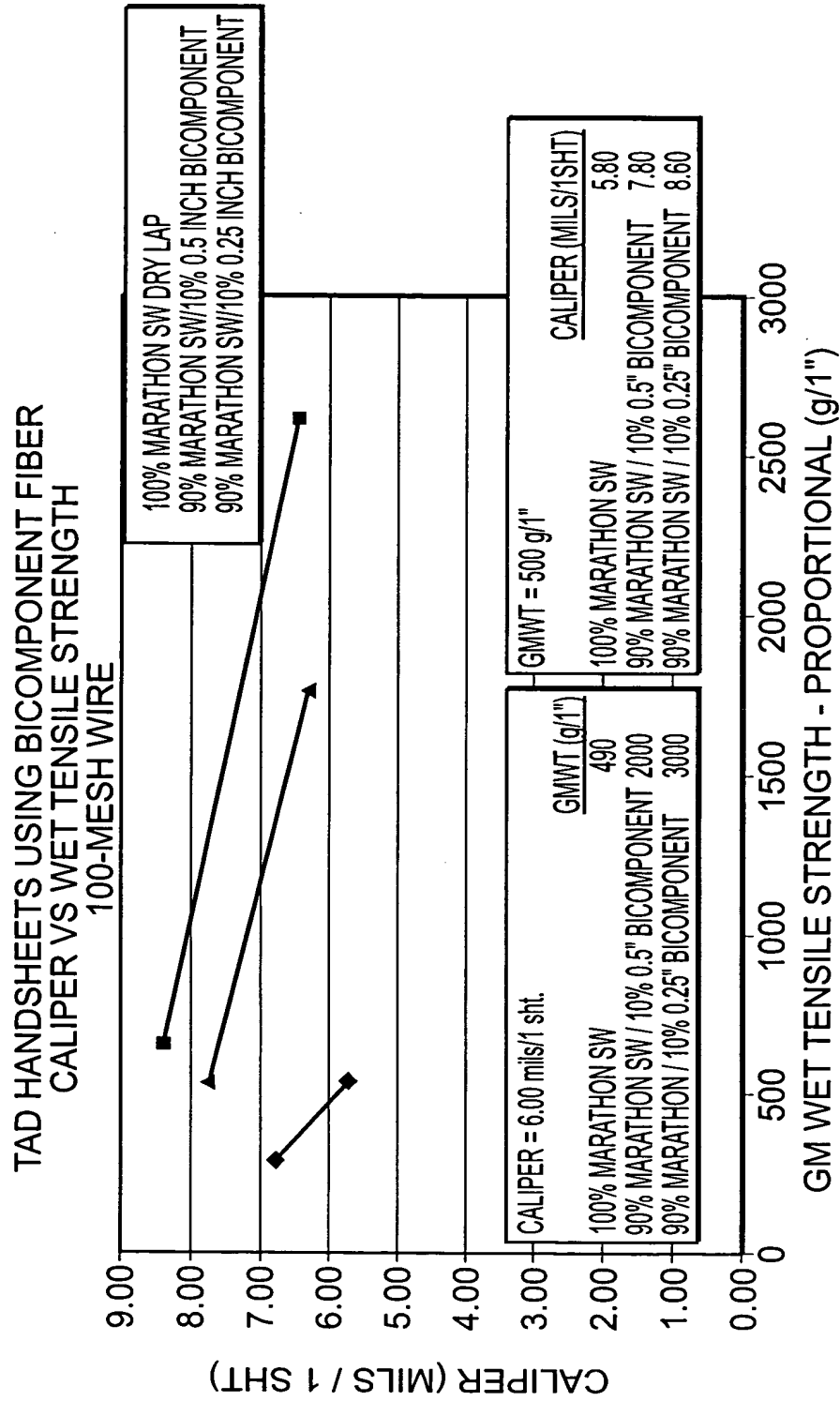


**FIG. 15**



**FIG. 16**





**FIG. 17**

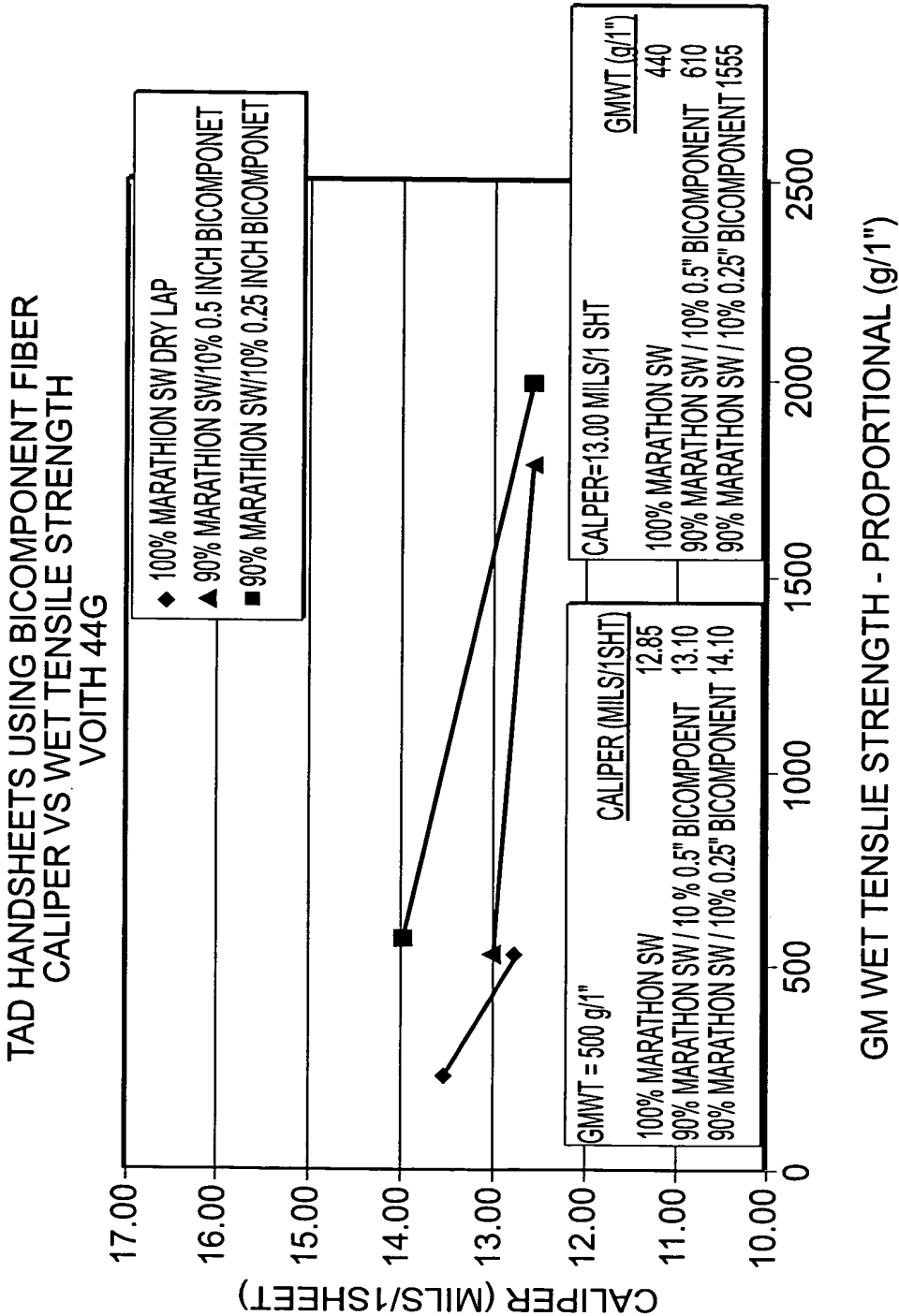
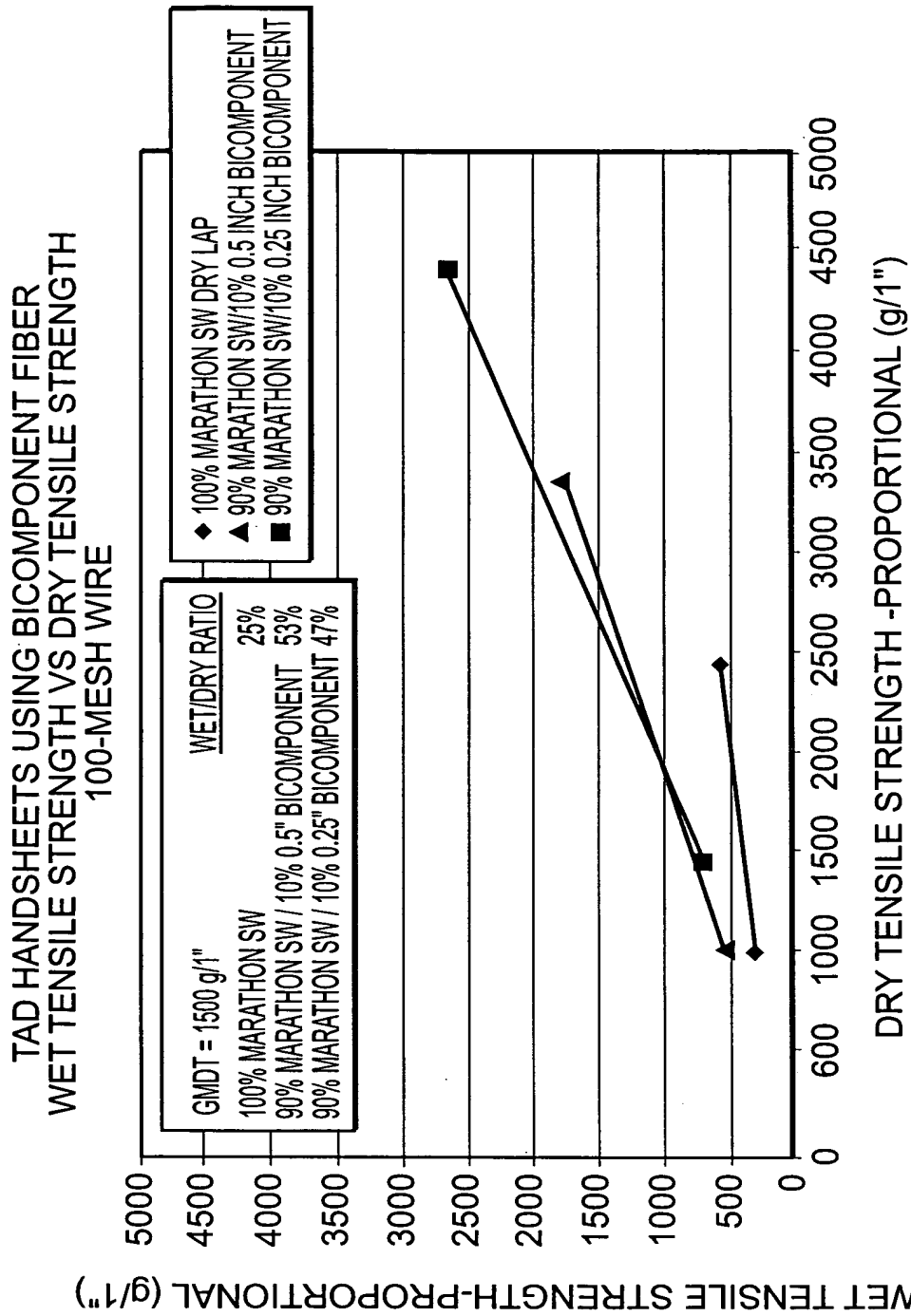
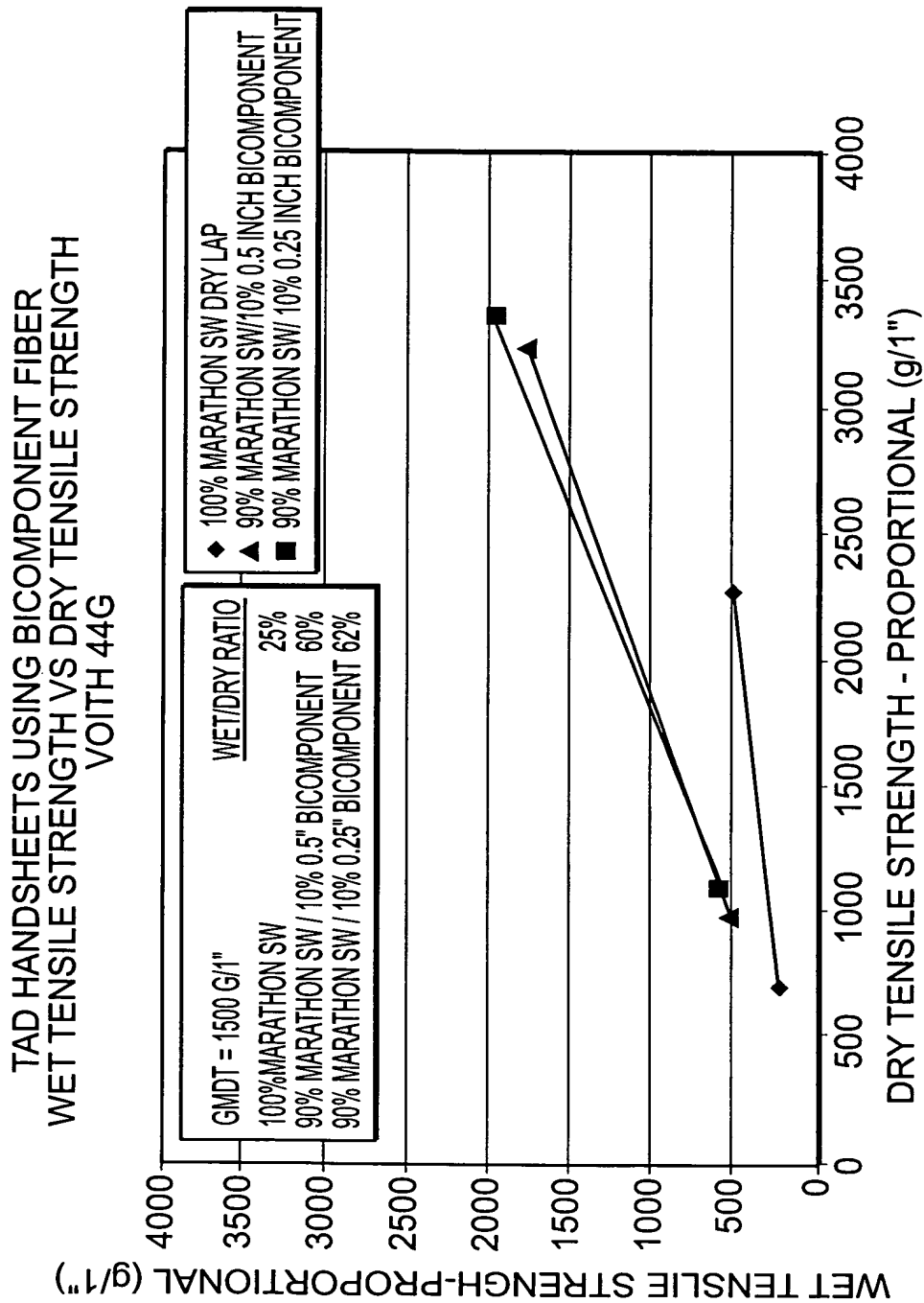


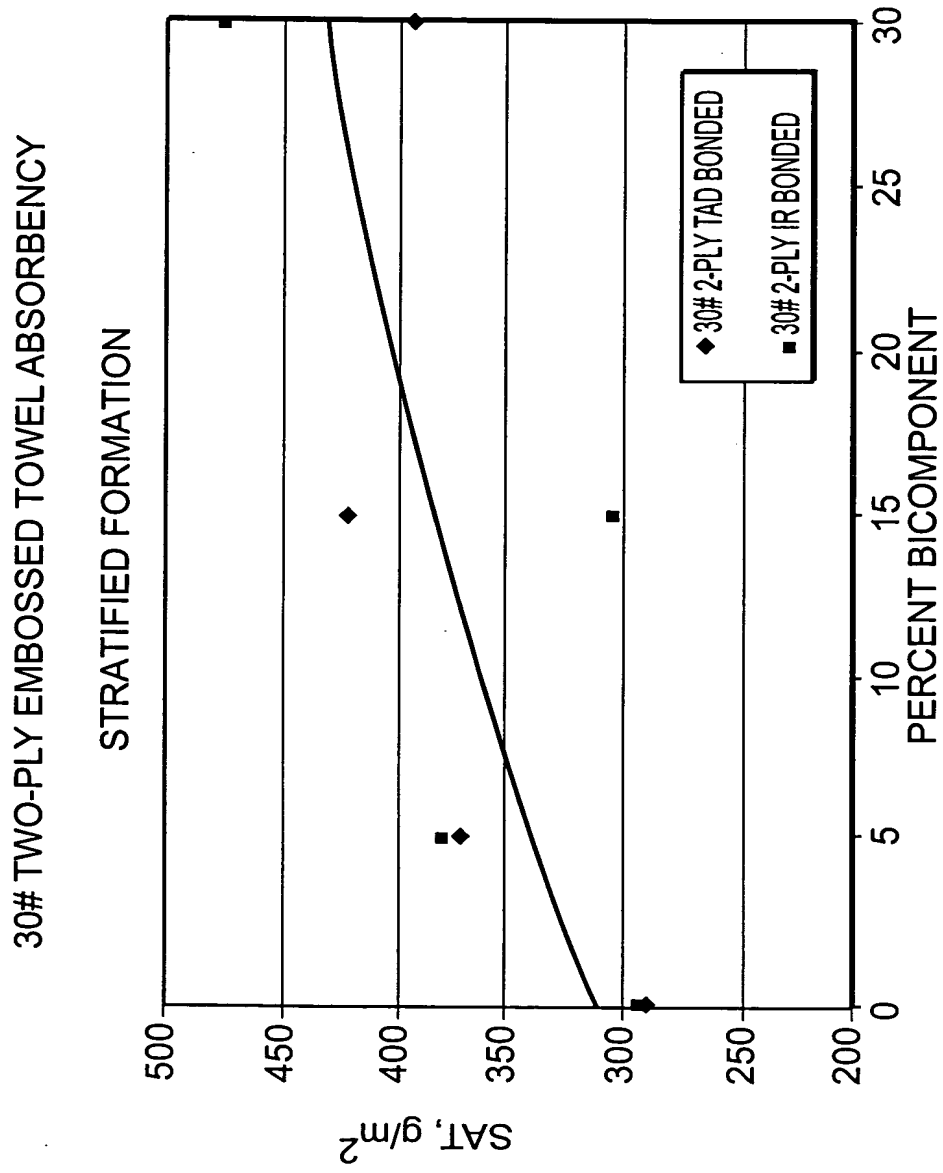
FIG. 18



**FIG. 19**



**FIG. 20**



**FIG. 21**

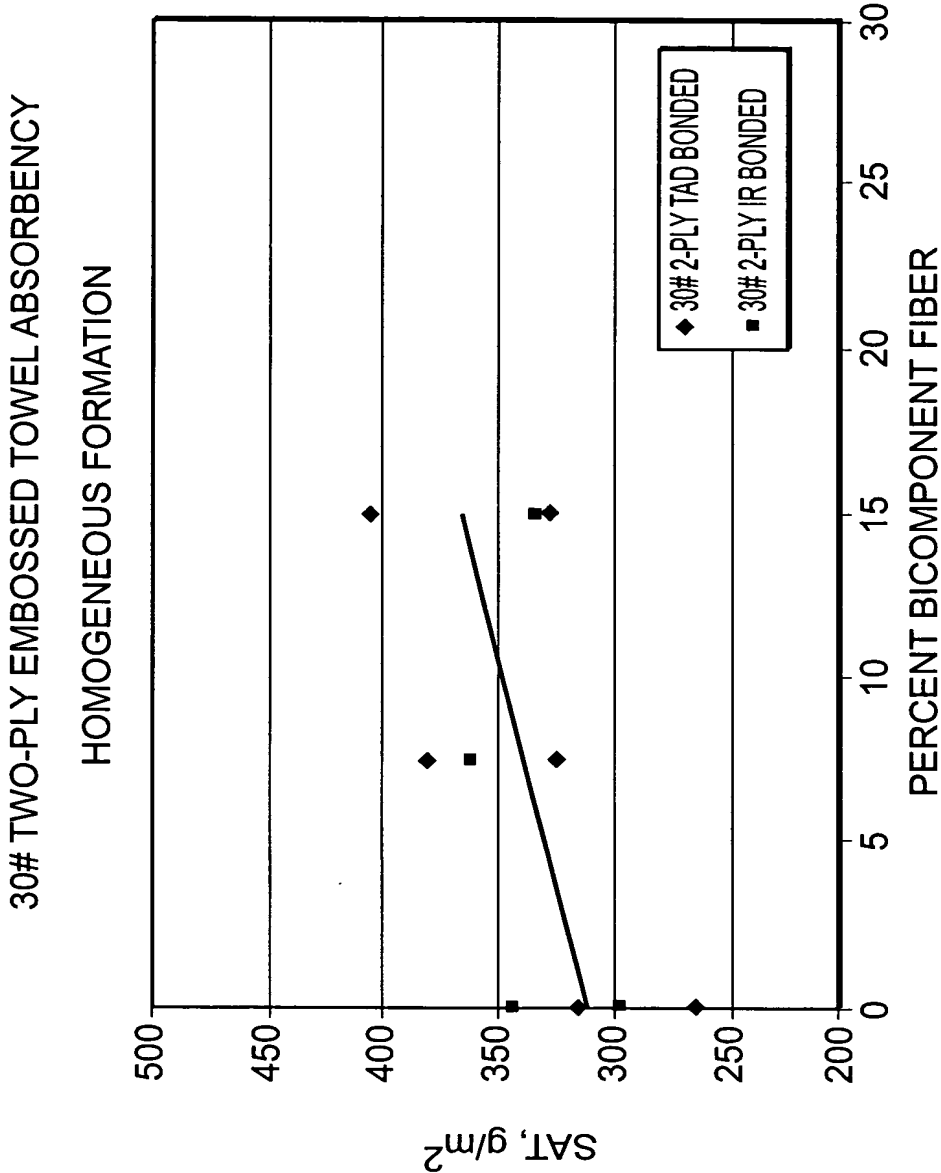
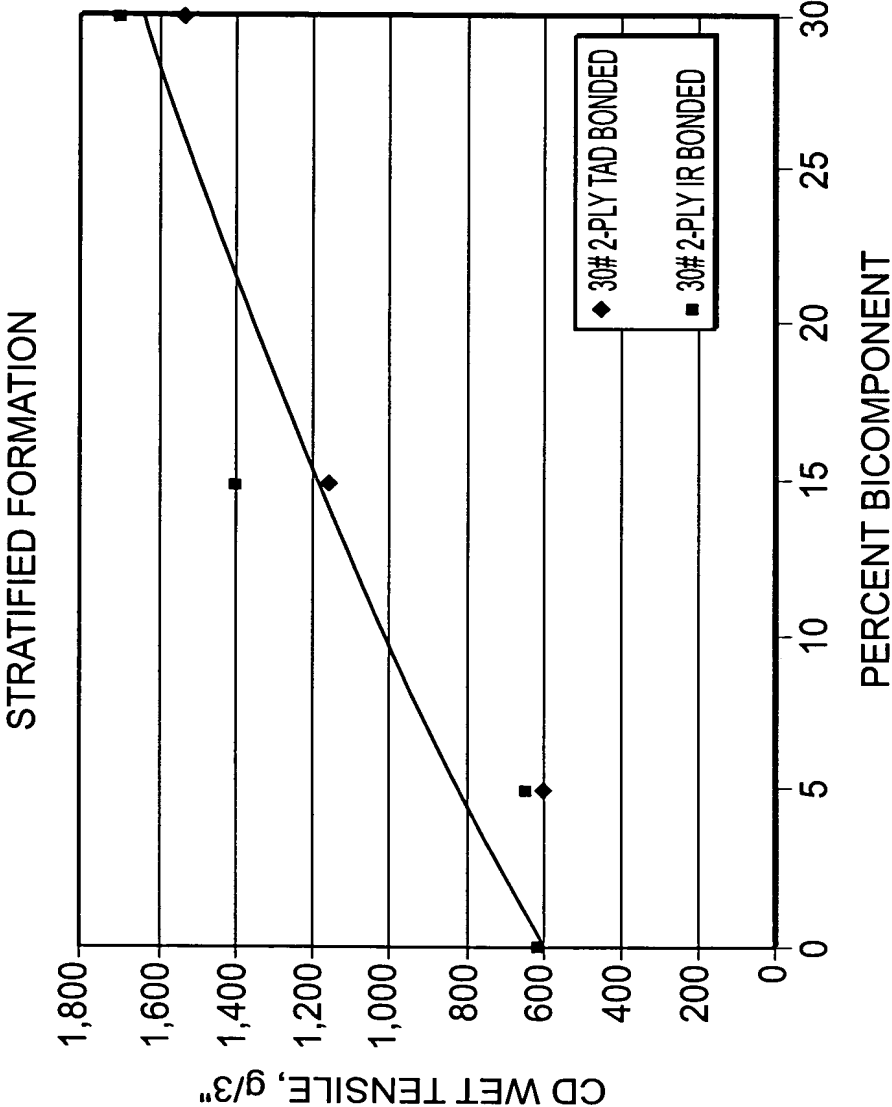


FIG. 22

30# TWO-PLY EMBOSSED TOWEL CD WET TENSILE



**FIG. 23**

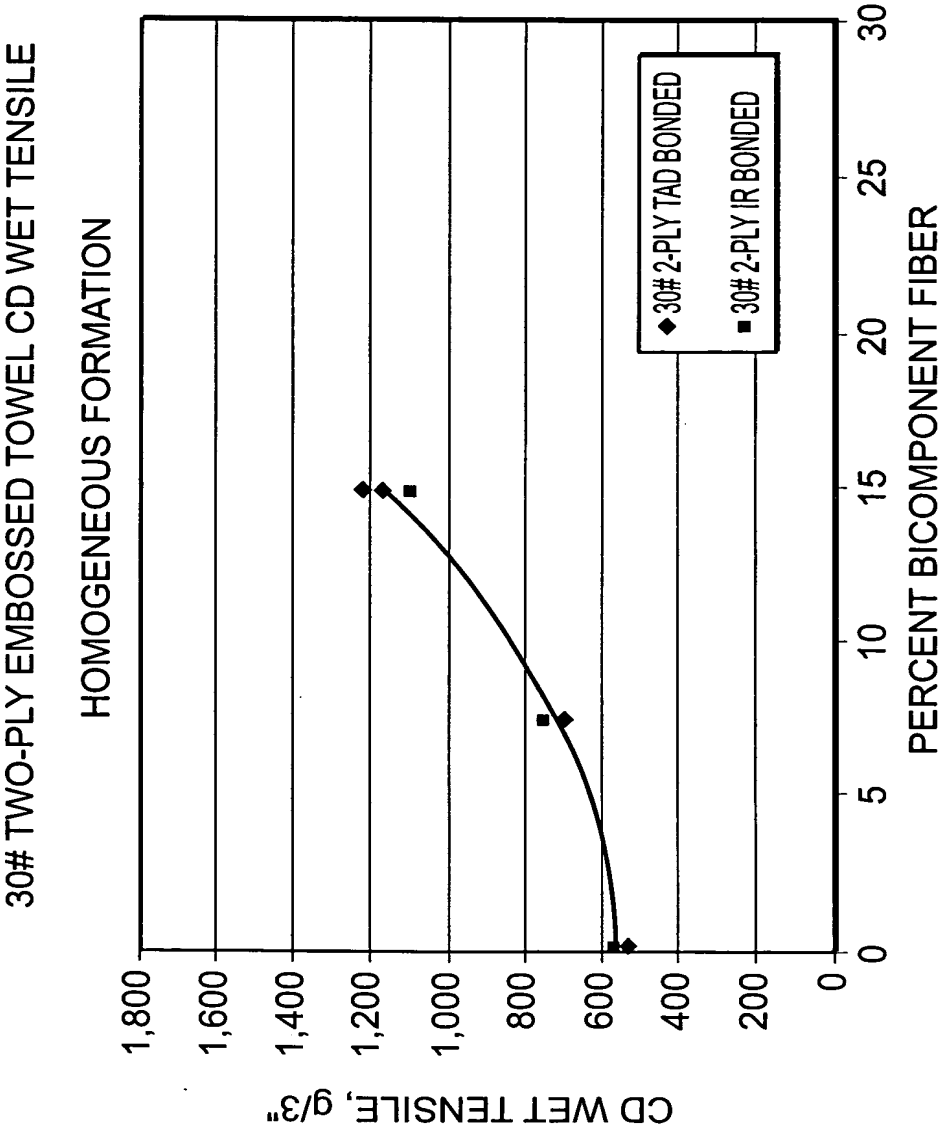


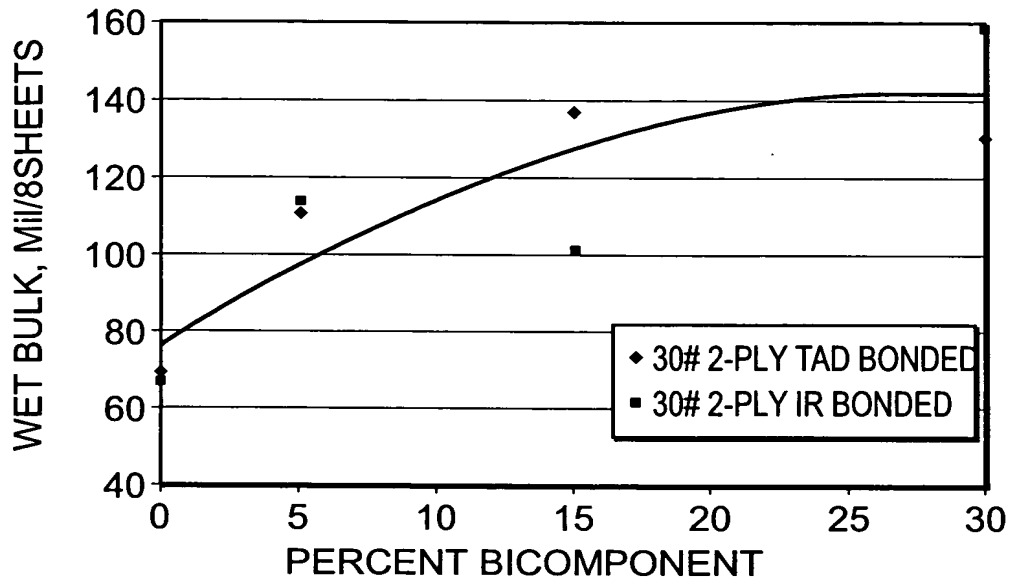
FIG. 24



## Replacement Sheet

### 30# TWO-PLY EMBOSSED TOWEL WET BULK

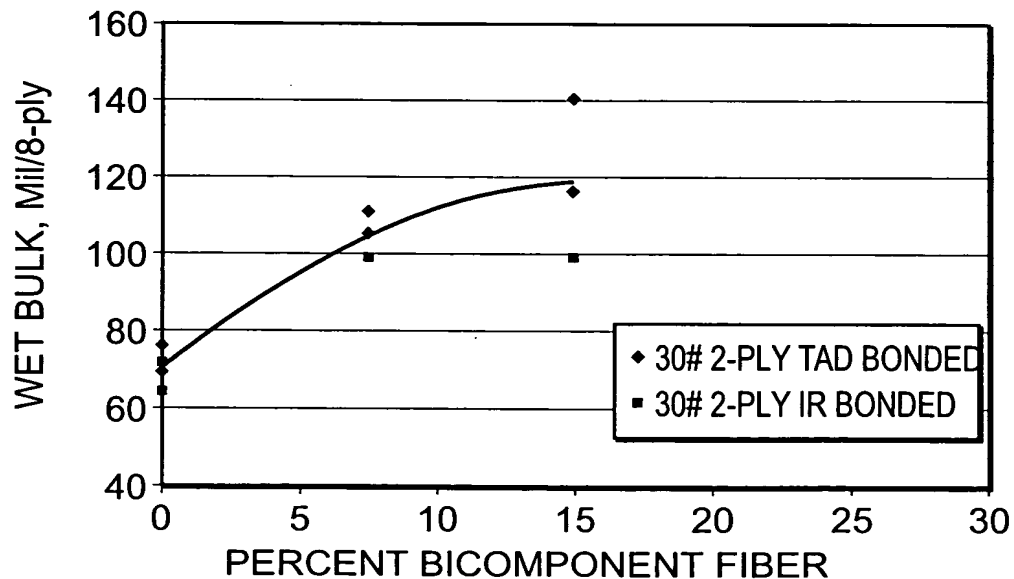
#### STRATIFIED FORMATION



**FIG. 25**

### 30# TWO-PLY EMBOSSED TOWEL WET BULK

#### HOMOGENEOUS FORMATION



**FIG. 26**

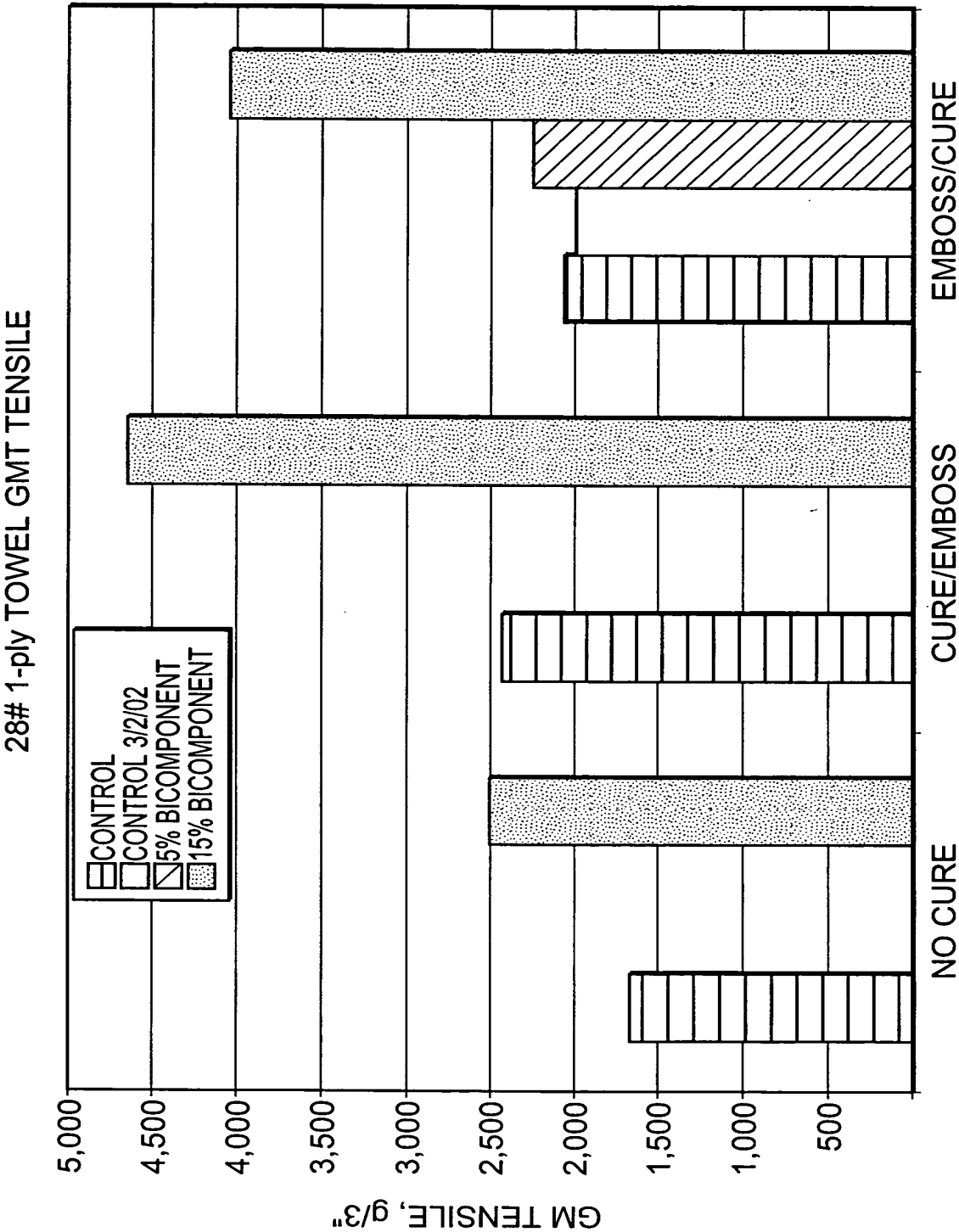


FIG. 27

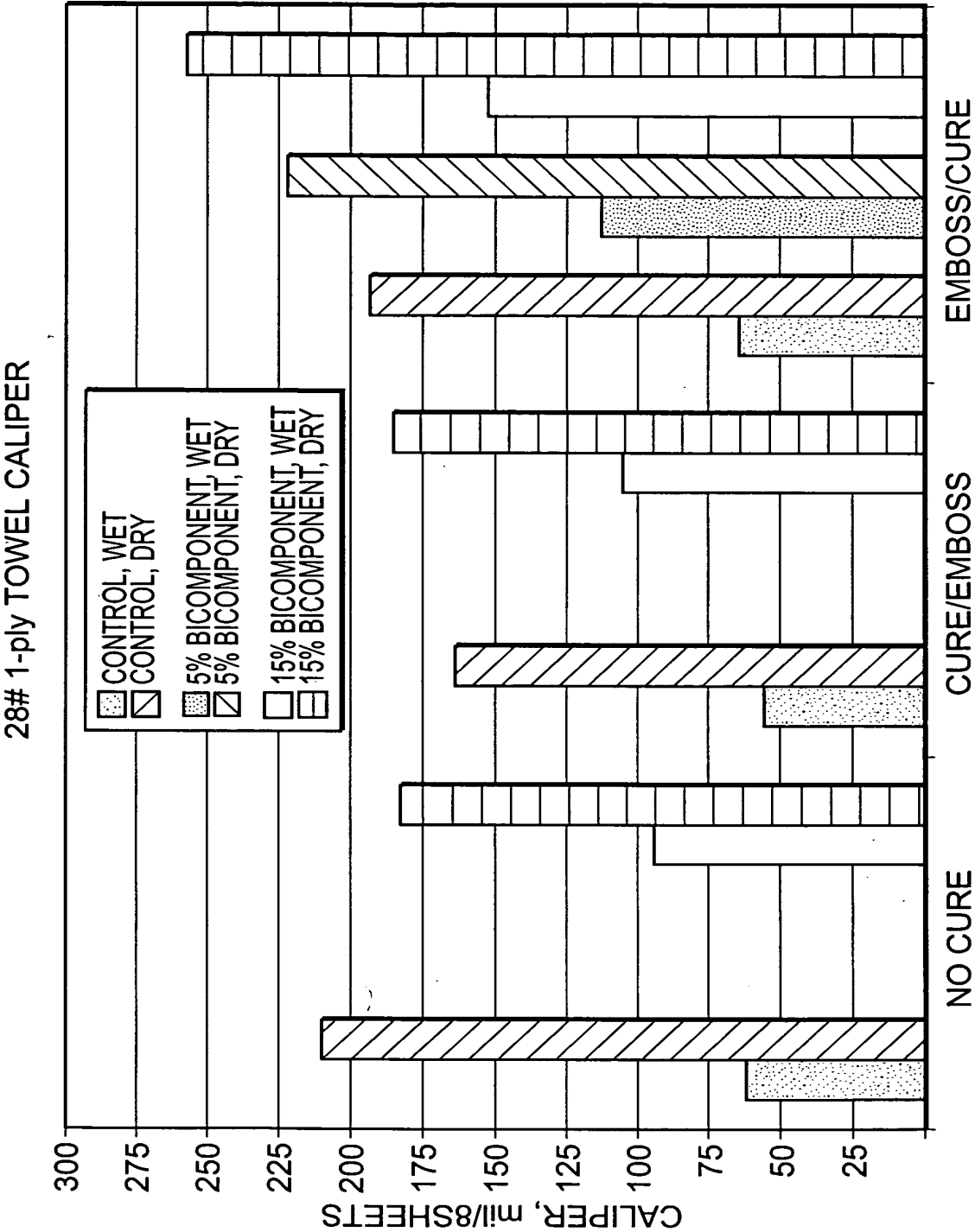


FIG. 28

28# 1-ply TOWEL WET RESILIENCY

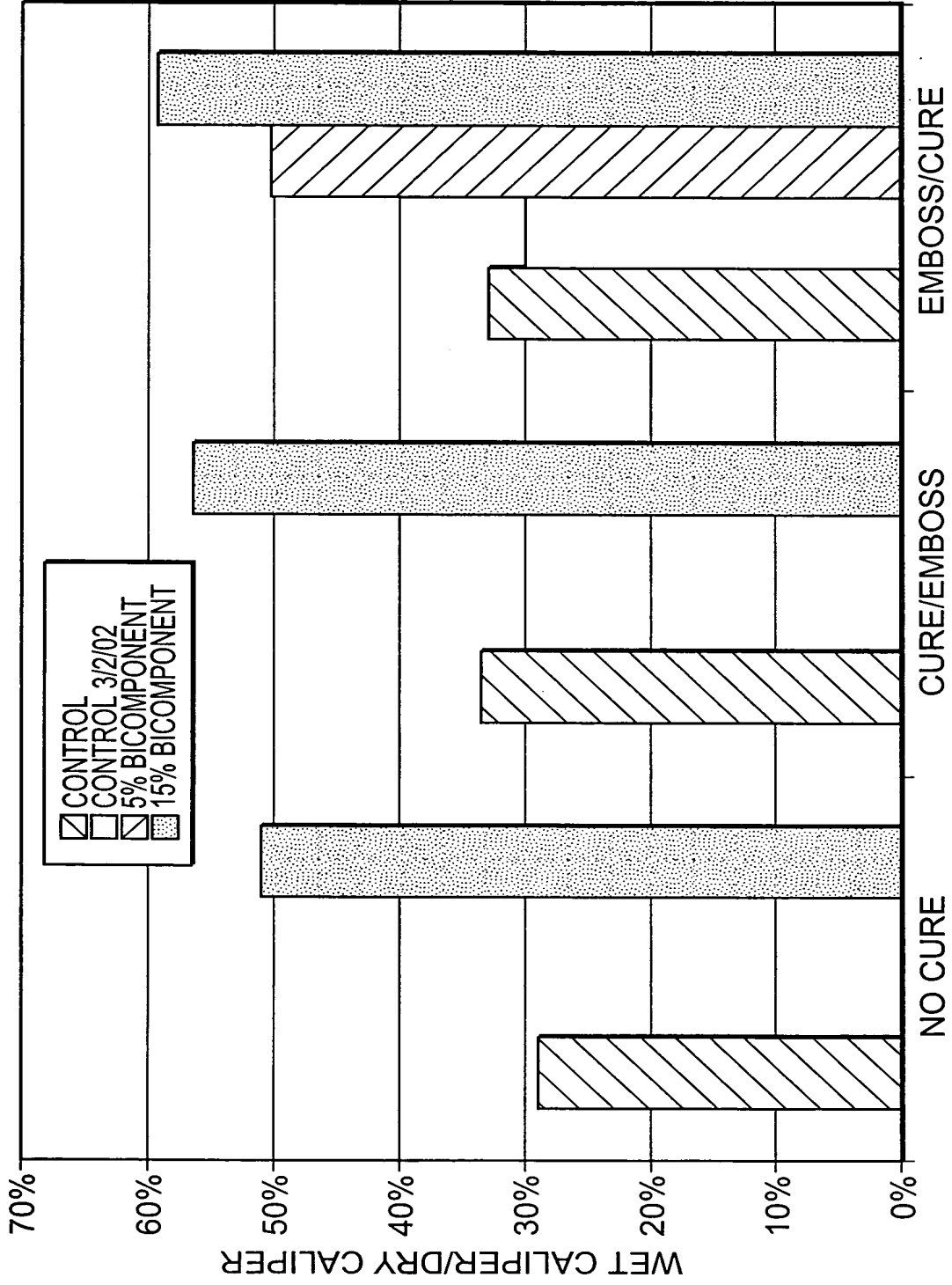
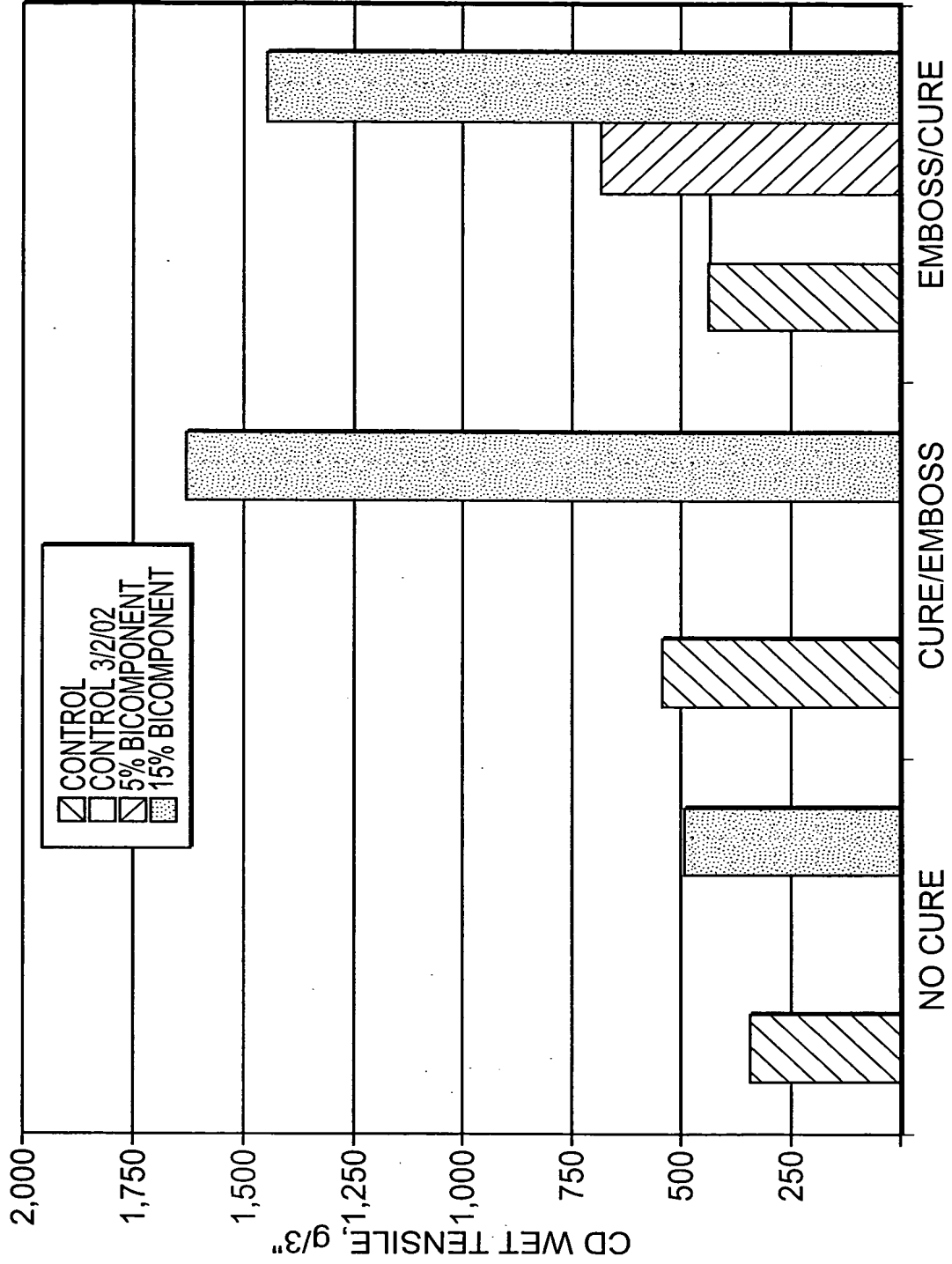


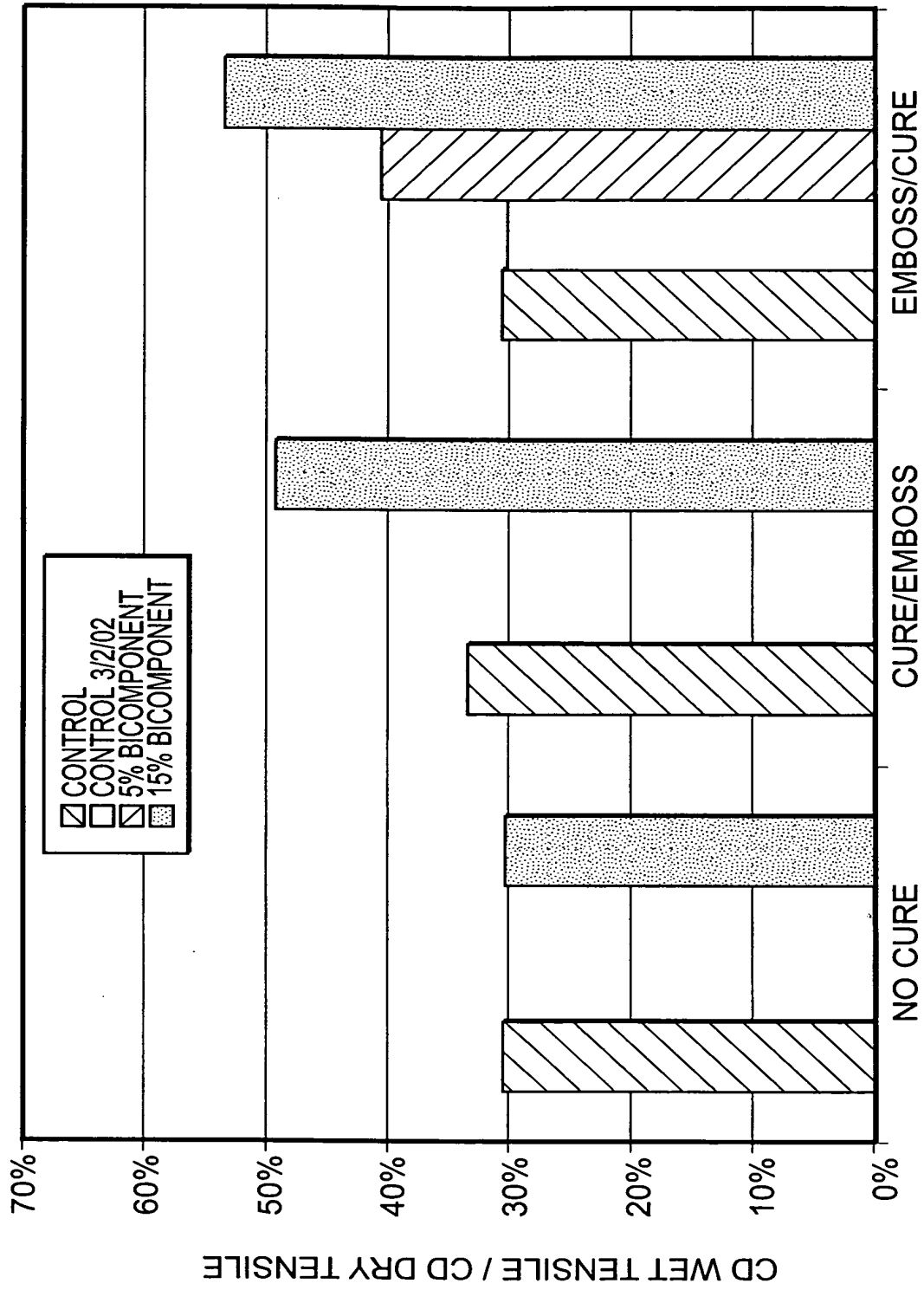
FIG. 29

28# 1-PLY TOWEL WET TENSILE

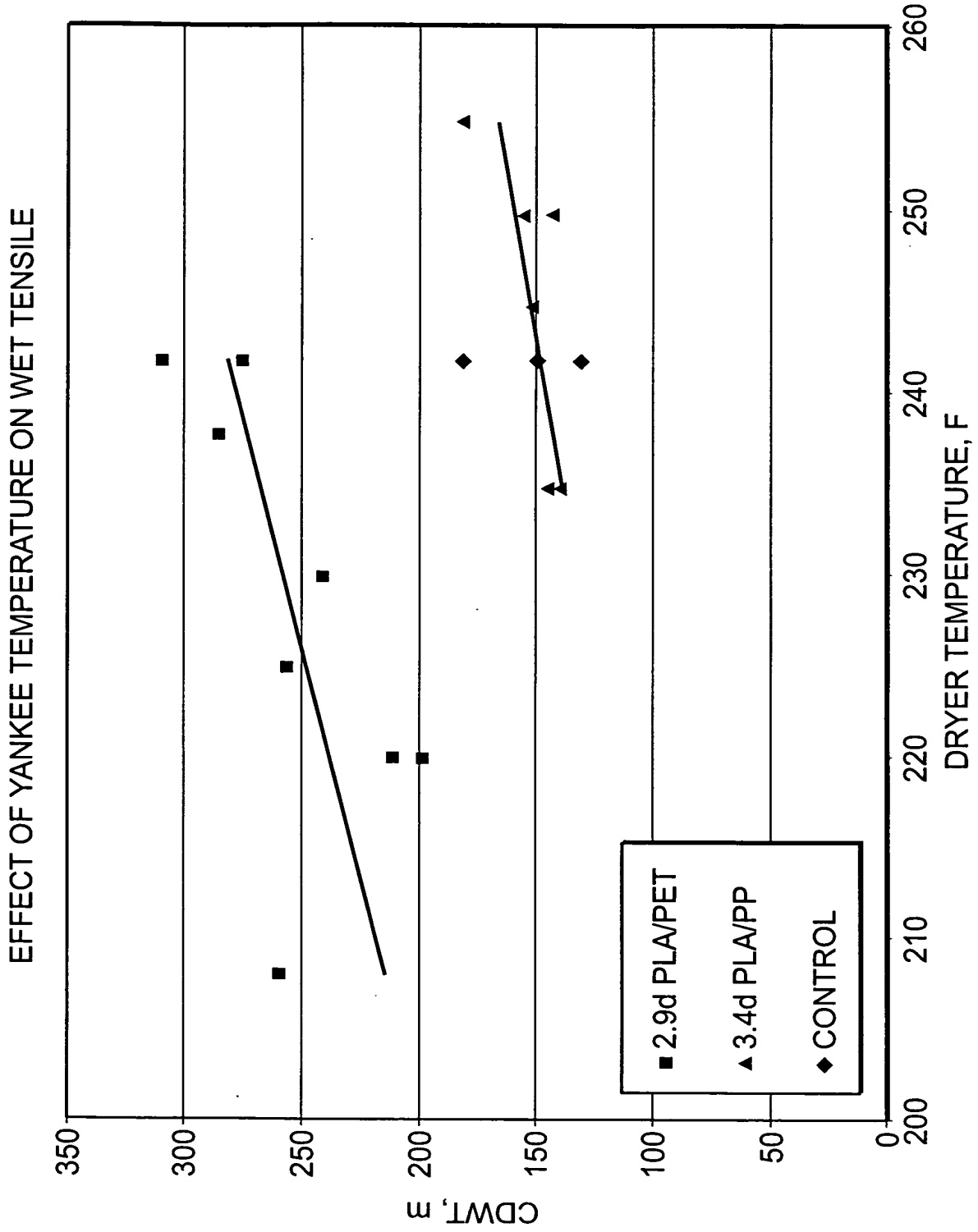


**FIG. 30**

28# 1-PLY TOWEL WET/DRY TENSILE



**FIG. 31**



**FIG. 32**

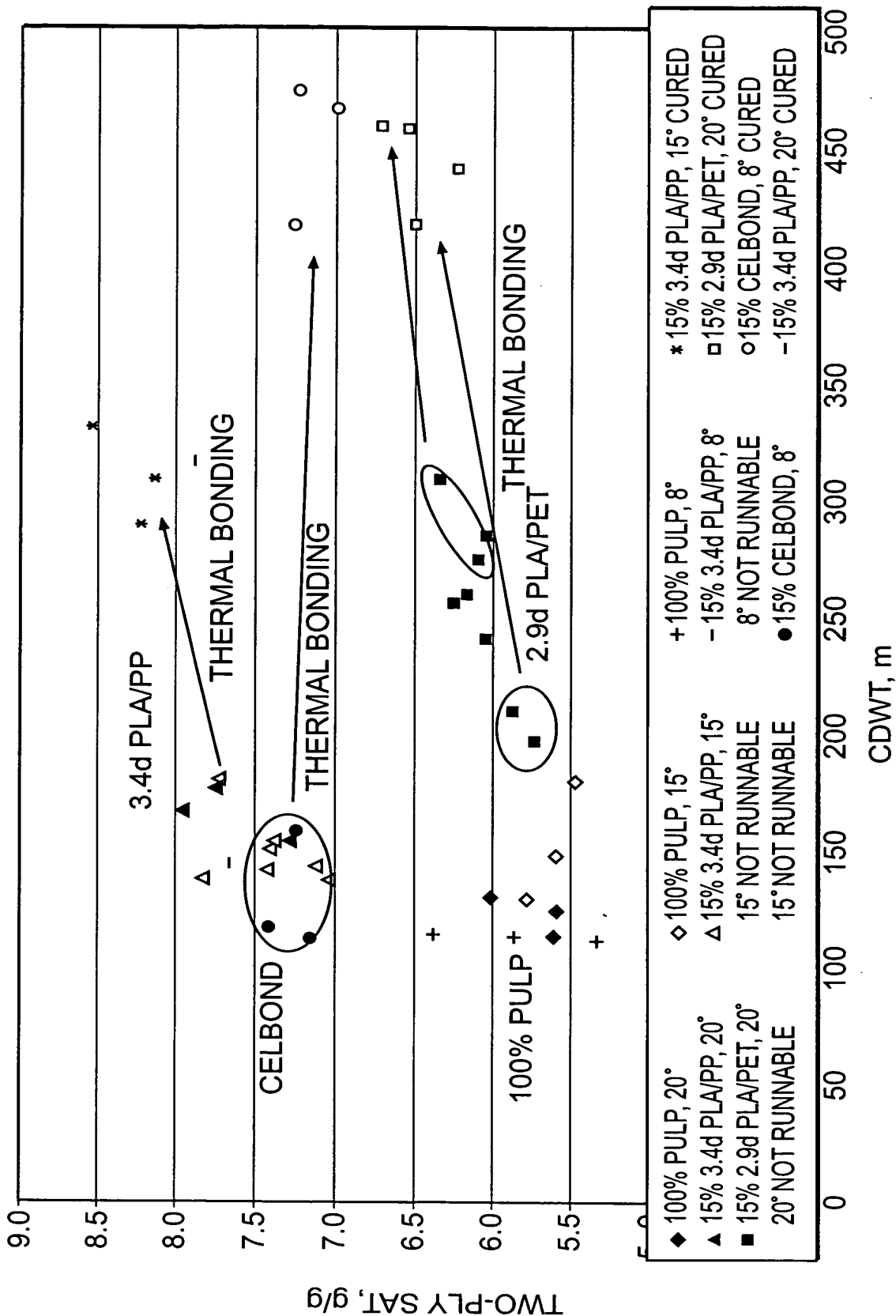
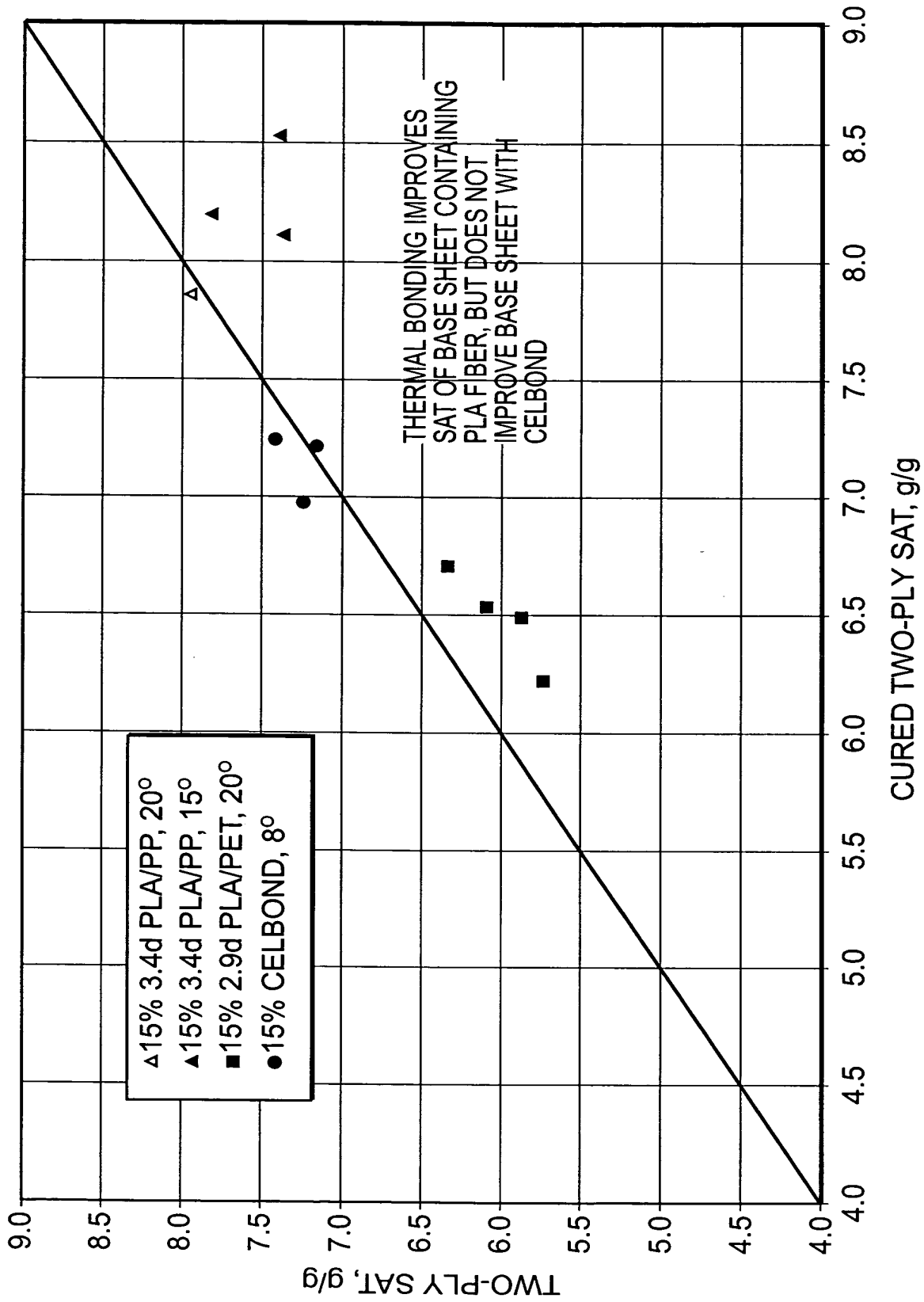


FIG. 33





**FIG. 34**

EFFECT OF THERMAL BONDING ON MODULUS.

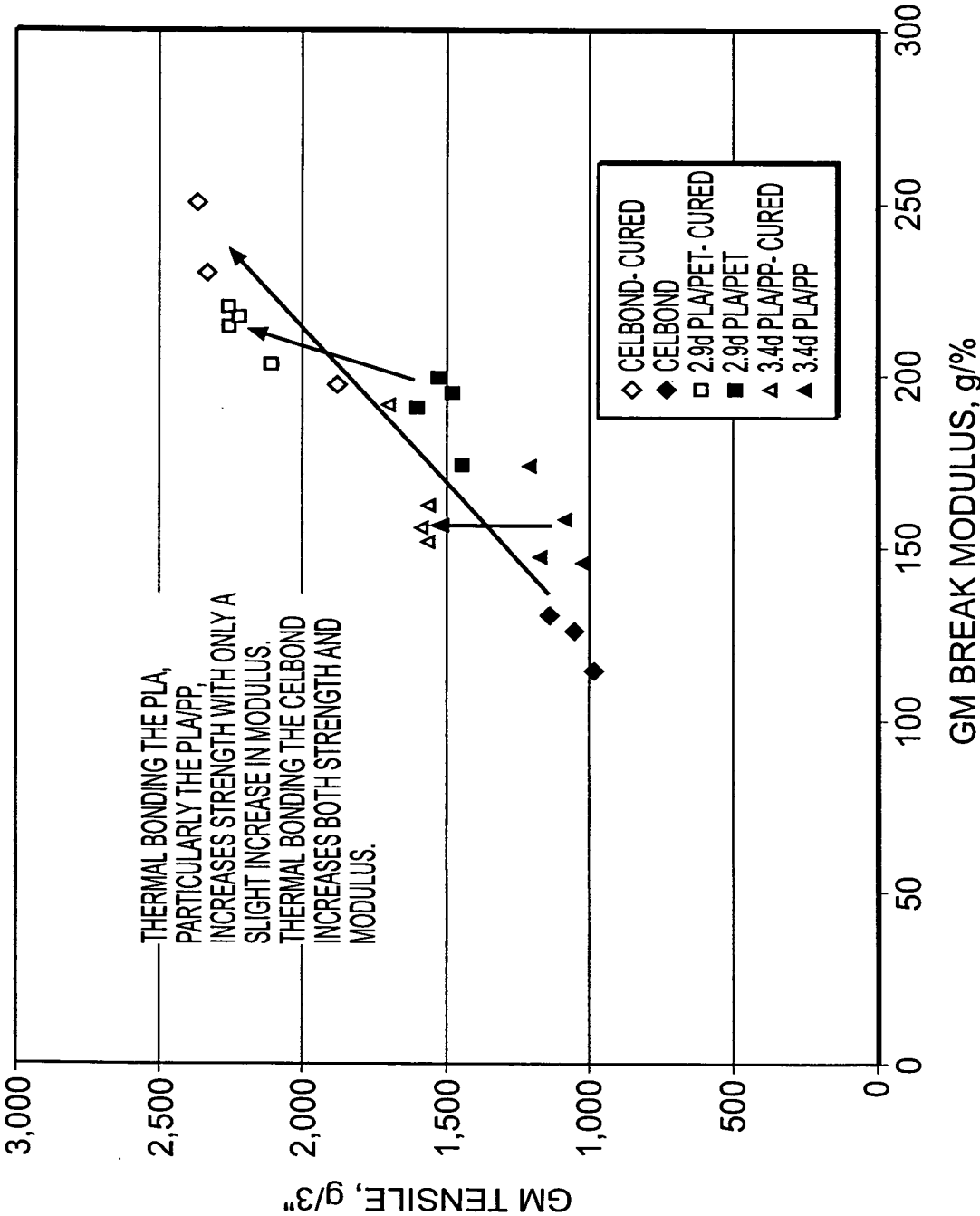
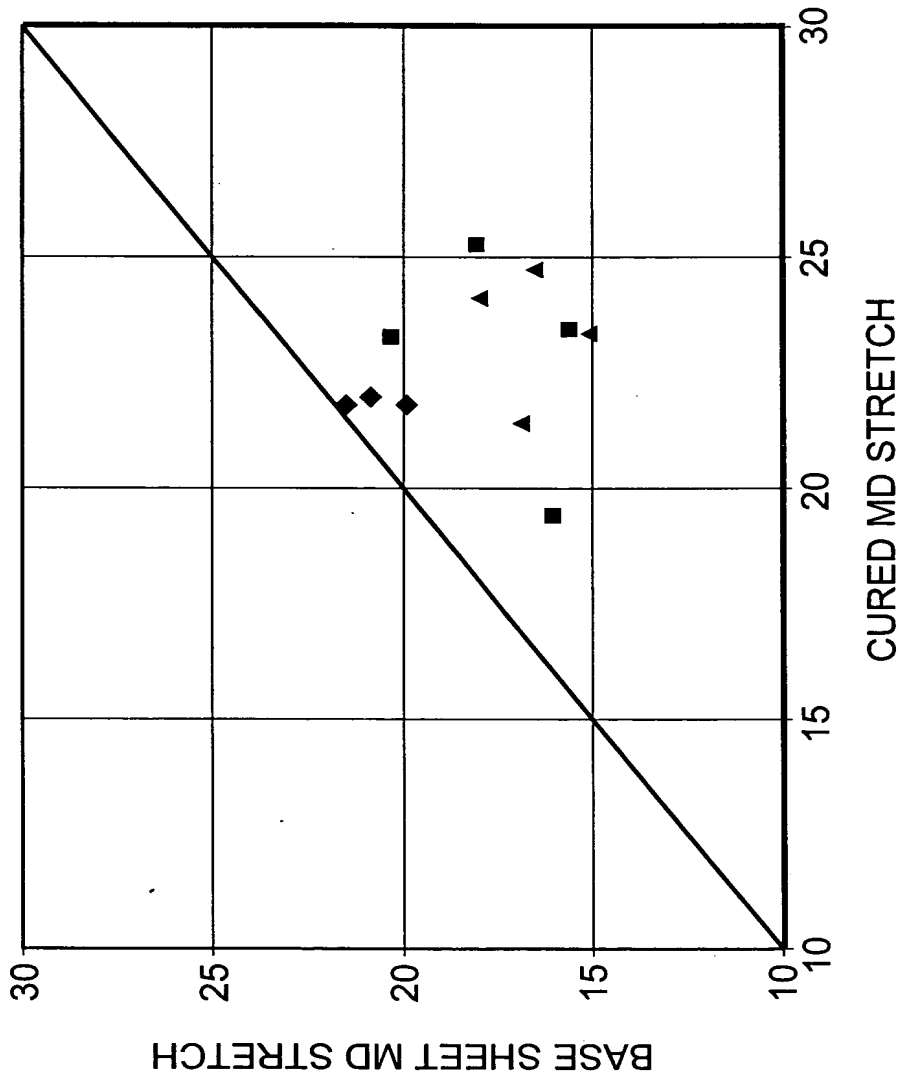


FIG. 35

EFFECT OF THERMAL BONDING ON MD STRETCH.



**FIG. 36**

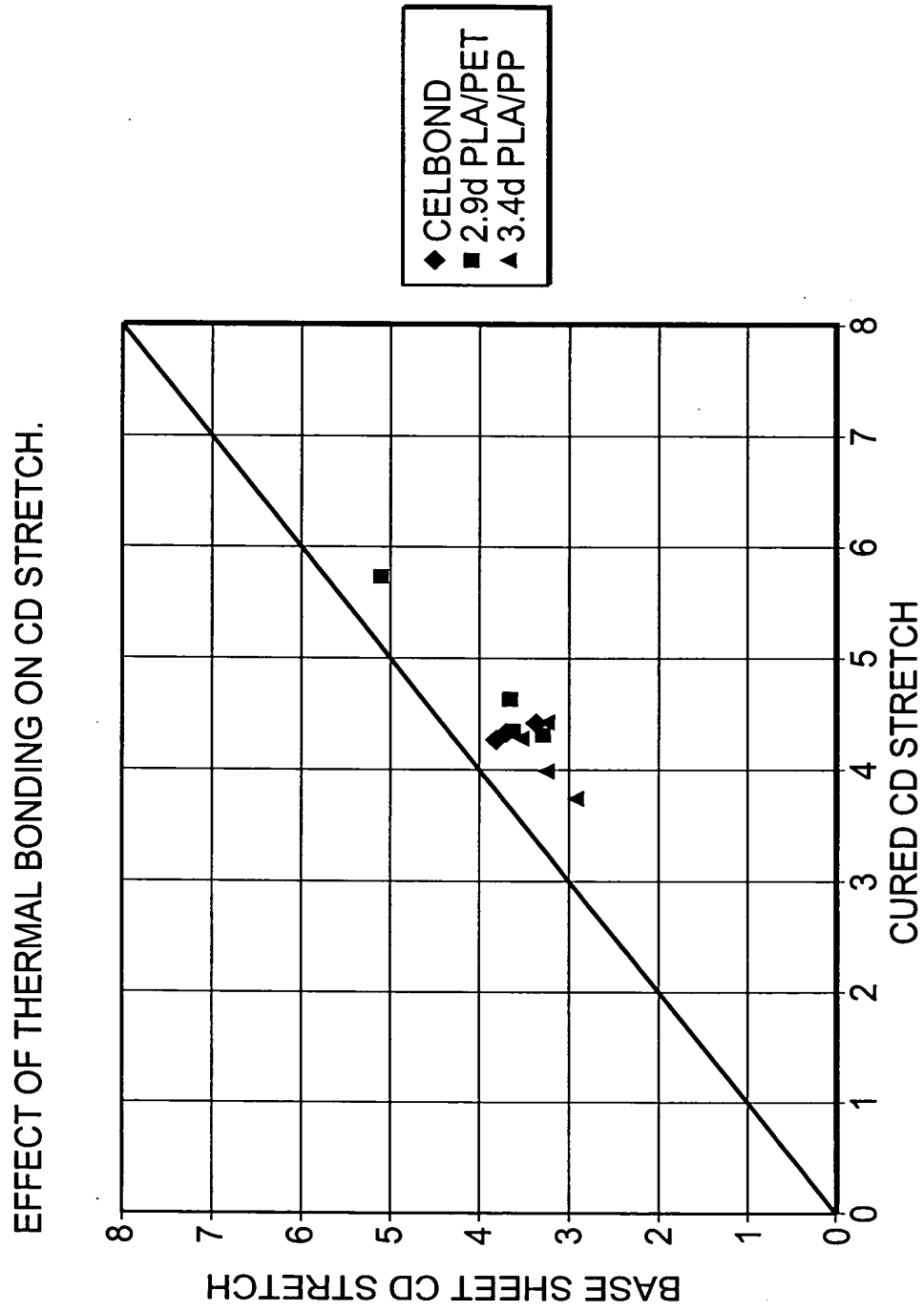
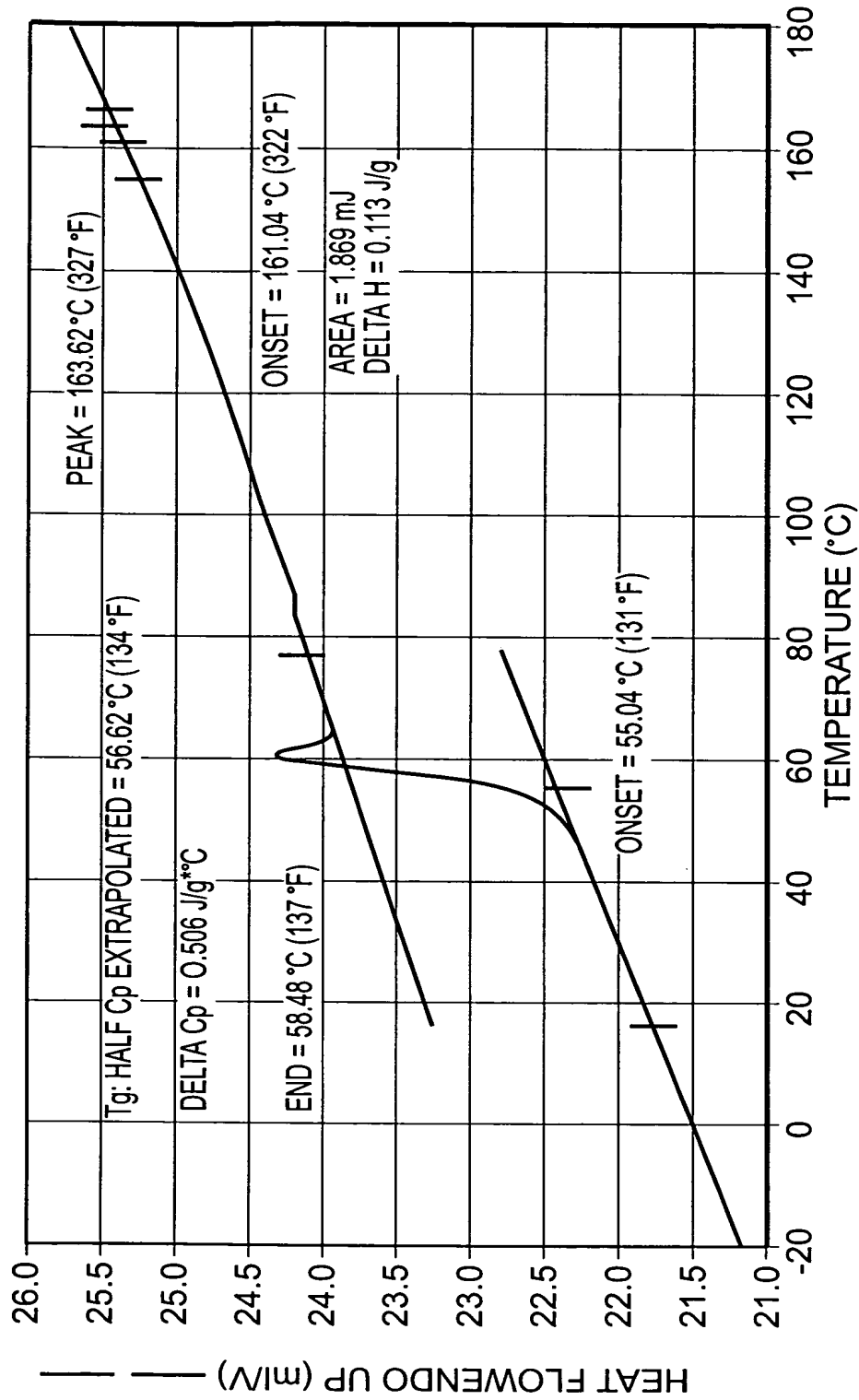


FIG. 37



**FIG. 38**

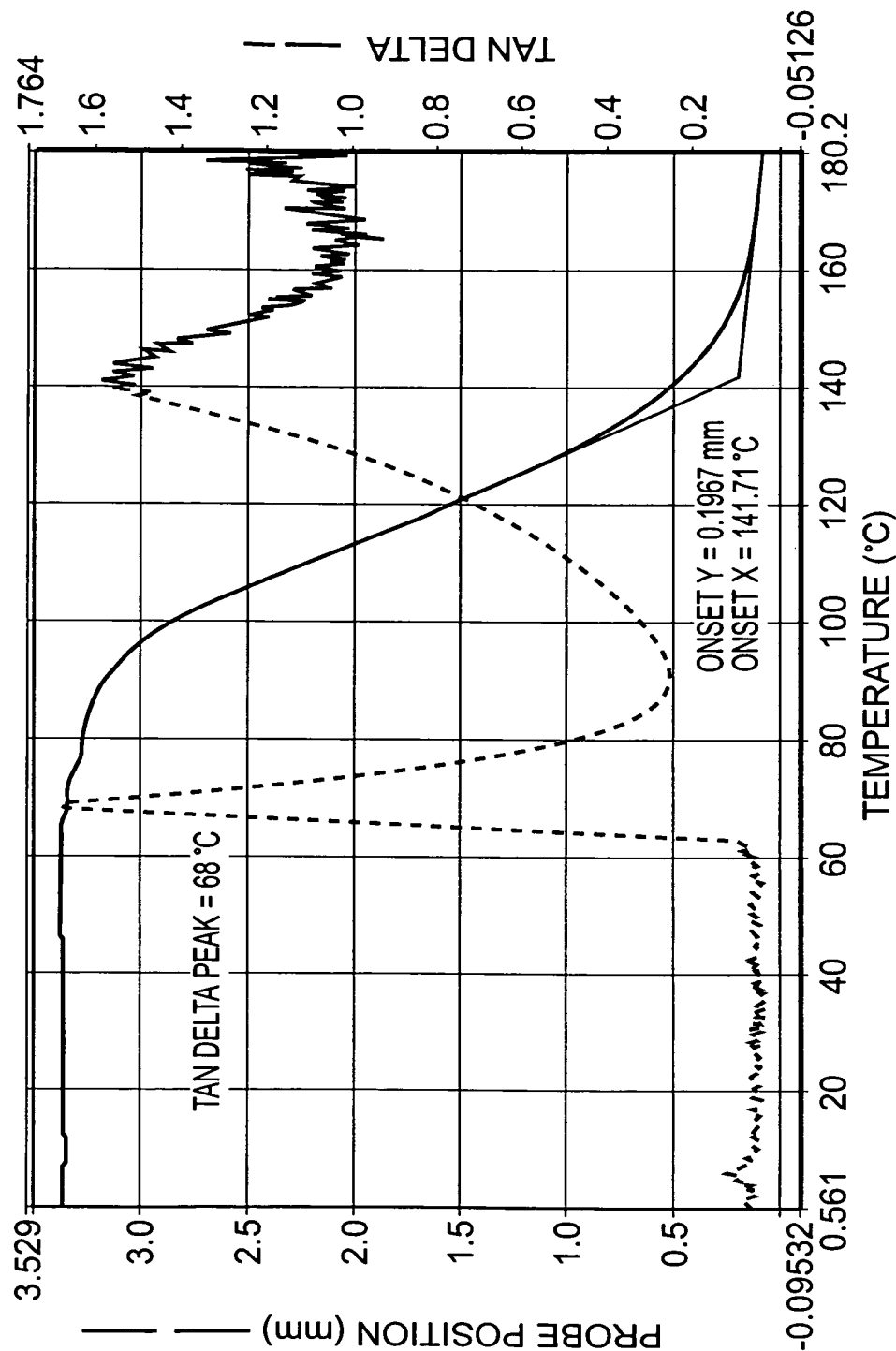


FIG. 39